V. Balasubramanian

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LOGINID:ssspta1611bxv

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2	Apr 08	"Ask CAS" for self-help around the clock
NEWS 3	Apr 09	BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS 4	Apr 09	ZDB will be removed from STN
NEWS 5	Apr 19	US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS 6	Apr 22	Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 7	Apr 22	BIOSIS Gene Names now available in TOXCENTER
NEWS 8	Apr 22	Federal Research in Progress (FEDRIP) now available
NEWS 9	Jun 03	New e-mail delivery for search results now available
NEWS 10	Jun 10	MEDLINE Reload
NEWS 11	Jun 10	PCTFULL has been reloaded
NEWS 12	Jul 02	FOREGE no longer contains STANDARDS file segment
NEWS 13	Jul 22	USAN to be reloaded July 28, 2002; saved answer sets no longer valid
NEWS 14	Jul 29	Enhanced polymer searching in REGISTRY
NEWS 15	Jul 30	NETFIRST to be removed from STN
NEWS 16	Aug 08	CANCERLIT reload
NEWS 17	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18	Aug 08	NTIS has been reloaded and enhanced
NEWS 19	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS 20	Aug 19	IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21	Aug 19	The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22	Aug 26	Sequence searching in REGISTRY enhanced
NEWS 23	Sep 03	JAPIO has been reloaded and enhanced
NEWS 24	Sep 16	Experimental properties added to the REGISTRY file
NEWS 25	Sep 16	Indexing added to some pre-1967 records in CA/CAPLUS
NEWS 26	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS 27	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985

NEWS EXPRESS	February 1 CURRENT WINDOWS VERSION IS V6.0d, CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP), AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 11:07:21 ON 03 OCT 2002

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 11:07:32 ON 03 OCT 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 1 OCT 2002 HIGHEST RN 457857-22-6
DICTIONARY FILE UPDATES: 1 OCT 2002 HIGHEST RN 457857-22-6

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP
PROPERTIES for more information. See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=>
Uploading C:\STNEXP4\QUERIES\10074014.str

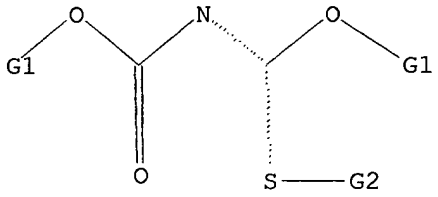
L1 STRUCTURE UPLOADED

=> que L1

L2 QUE L1

=> d l1
L1 HAS NO ANSWERS
L1 STR

V. Balasubramanian



G1 Cy,Ak

G2 H,M,Cy,Ak

Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss sam
SAMPLE SEARCH INITIATED 11:07:59 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 16 TO ITERATE

100.0% PROCESSED 16 ITERATIONS 6 ANSWERS
SEARCH TIME: 00.00.01

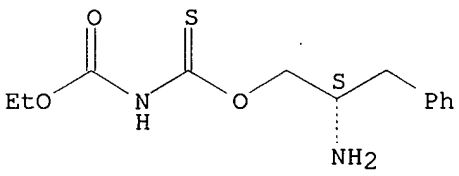
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 80 TO 560
PROJECTED ANSWERS: 6 TO 266

L3 6 SEA SSS SAM L1

=> d scan

L3 6 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN Carbamic acid, [[(2S)-2-amino-3-phenylpropoxy]thioxomethyl]-, ethyl ester, monohydrochloride (9CI)
MF C13 H18 N2 O3 S . Cl H

Absolute stereochemistry.



● HCl

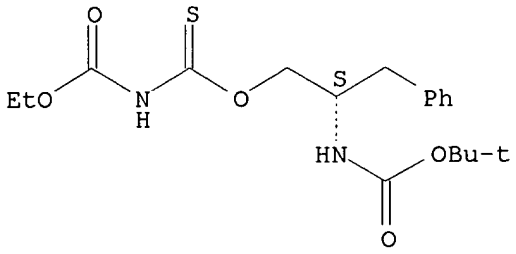
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):5

L3 6 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN 4,9-Dioxa-2,7-diazaundecanoic acid, 10,10-dimethyl-8-oxo-6-(phenylmethyl)-3-thioxo-, ethyl ester, (6S)- (9CI)

V. Balasubramanian

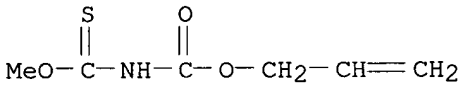
MF C18 H26 N2 O5 S

Absolute stereochemistry.



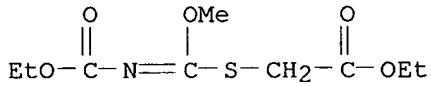
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 6 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN Carbamic acid, (methoxythioxomethyl)-, 2-propenyl ester (9CI)
MF C6 H9 N O3 S



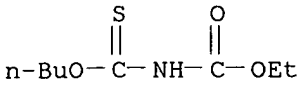
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 6 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN Acetic acid, [[[(ethoxycarbonyl)imino]methoxymethyl]thio]-, ethyl ester (9CI)
MF C9 H15 N O5 S



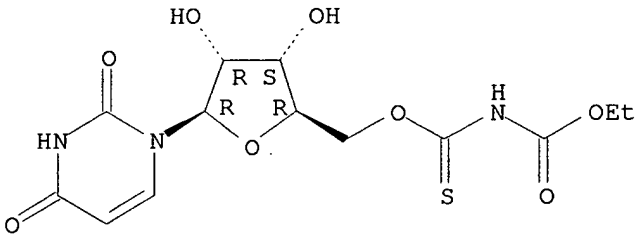
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 6 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 3-butyl 1-ethyl ester, potassium salt (9CI)
MF C8 H15 N O3 S . K



L3 6 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN Uridine, 5'-ester with thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)) 1-ethyl ester (9CI)
MF C13 H17 N3 O8 S

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> s l1 sss ful
FULL SEARCH INITIATED 11:08:14 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 319 TO ITERATE

100.0% PROCESSED 319 ITERATIONS 104 ANSWERS
SEARCH TIME: 00.00.01

L4 104 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	140.28	140.49

FILE 'CAPLUS' ENTERED AT 11:08:21 ON 03 OCT 2002

FILE COVERS 1907 - 3 Oct 2002 VOL 137 ISS 14
FILE LAST UPDATED: 2 Oct 2002 (20021002/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

```
=> s l4
L5          73 L4

=> s l4/prep
            73 L4
       2917220 PREP/RL
L6          39 L4/PREP
                 (L4 (L) PREP/RL)

=> d l6 1-39 bib abs hitstr
```

L6 ANSWER 1 OF 39 CAPLUS COPYRIGHT 2002 ACS
AN 2001:857491 CAPLUS
DN 135:371451
TI Improved preparation of high-purity isothiocyanatoformic acid esters as reactants in preparation of pyrrolotriazinones
IN Matsushita, Akinori
PA Fuji Photo Film Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 15 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 2

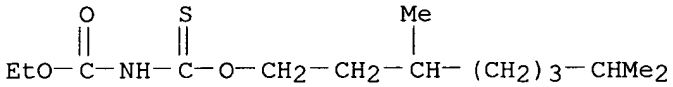
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001328976	A2	20011127	JP 2000-146749	20000518
	US 2002010330	A1	20020124	US 2001-858723	20010517
	US 2002128479	A1	20020912	US 2002-74014	20020214
PRAI	JP 2000-146506	A	20000518		
	JP 2000-146749	A	20000518		
	US 2001-858723	A3	20010517		

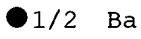
OS CASREACT 135:371451; MARPAT 135:371451
AB R1O2CN:C(SR2)OR3 [R1 = (un)substituted alkyl, (un)substituted aryl; R2 = (un)substituted alkyl, (un)substituted aryl, (un)substituted heterocyclyl; R3 = C.gtoreq.3 (un)substituted alkyl, (un)substituted aryl] are prepd. by treatment of ZNCS (Z = Na, K) and R3OH (R3 = same as above) with ClCO2R1 (R1 = same as above) via R1O2CNHC(:S)OR3 and [R1O2CNHC(OR3)S]nM (R1, R3 = same as above; M = alkali metal, alk. earth metal, Al, Mg). Thus, ClCO2Et was dropwise added a soln. contg. KNCS and tetrahydrogeraniol at <15.degree. over 1 h, the reaction mixt. stirred at room temp. overnight,

and treated with aq. Ba(OH)2 to give 71% [EtO2CNHC(OR)S]2Ba (R = tetrahydrogeranyl), which was methylated with (MeO)2SO2 in Me2CO to afford the corresponding isothiocyanatoformate with 91% yield and 98% purity.

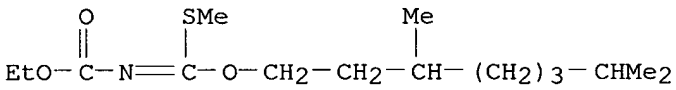
IT **374540-18-8P 374540-19-9P**
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); **PREP (Preparation)**; RACT (Reactant or reagent)
(improved prepn. of high-purity isothiocyanatoformic acid esters as reactants in prepn. of pyrrolotriazinones)

RN 374540-18-8 CAPLUS
CN Carbamic acid, [[(3,7-dimethyloctyl)oxy]thioxomethyl]-, ethyl ester, barium salt (9CI) (CA INDEX NAME)



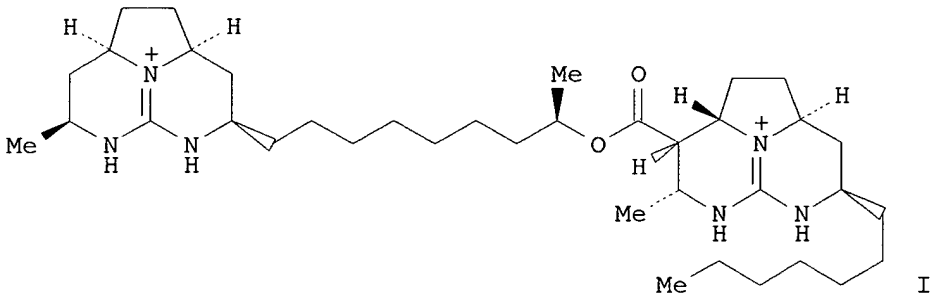


RN 374540-19-9 CAPLUS
CN Carbonimidothioic acid, (ethoxycarbonyl)-, O-(3,7-dimethyloctyl) S-methyl ester (9CI) (CA INDEX NAME)

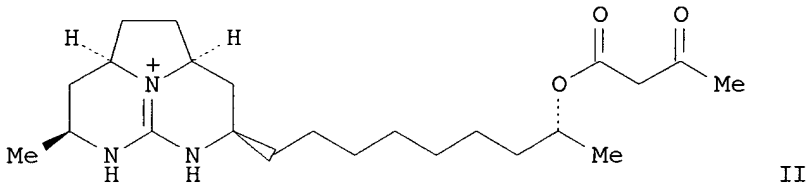


L6 ANSWER 2 OF 39 CAPLUS COPYRIGHT 2002 ACS
AN 2001:733456 CAPLUS
DN 136:53928
TI Enantioselective total synthesis of batzelladine F: structural revision and stereochemical definition
AU Cohen, Frederick; Overman, Larry E.
CS Department of Chemistry, University of California, Irvine, CA, 92697-2025, USA
SO Journal of the American Chemical Society (2001), 123(43), 10782-10783
CODEN: JACSAT; ISSN: 0002-7863
PB American Chemical Society
DT Journal
LA English
GI

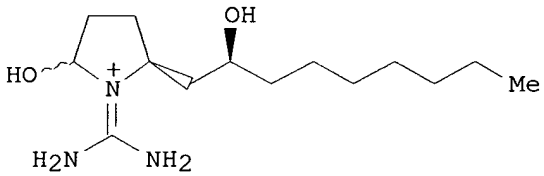
V. Balasubramanian



I



II



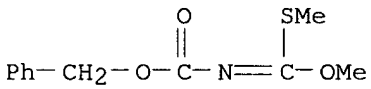
III

AB The first total synthesis of batzelladine F (I) as the bistrifluoroacetate salt was accomplished in 15 linear steps from two readily available enantiopure .beta.-hydroxy ketones. This enantioselective synthesis revises the structure of batzelladine F and defines its stereochem. Moreover, the scope of the tethered Biginelli condensation between .beta.-keto ester II as the BF4- salt and guanidine III as the acetate salt has been expanded to include the assembly of complex bisguanidines.

IT **379668-88-9P**
RL: RGT (Reagent); SPN (Synthetic preparation); **PREP (Preparation)** ; RACT (Reactant or reagent)
(asym. total synthesis of batzelladine F via Biginelli condensation, its structure revision and stereochem.)

RN 379668-88-9 CAPLUS

CN Carbamic acid, [methoxy(methylthio)methylene]-, phenylmethyl ester (9CI) (CA INDEX NAME)



RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 39 CAPLUS COPYRIGHT 2002 ACS

AN 2000:876765 CAPLUS

DN 134:42876

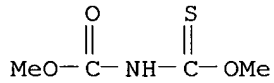
TI Preparation of N-alk(en)oxy(or aryloxy)carbonyl isothiocyanates and their derivatives in the presence of N,N-dialkylarylamine catalysts

V. Balasubramanian

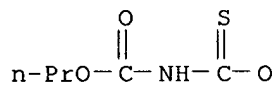
IN Kulkarni, Shekhar V.; Desai, Vijay C.
PA Bayer Corporation, USA
SO Eur. Pat. Appl., 12 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1059289	A1	20001213	EP 2000-110990	20000529
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	US 6066754	A	20000523	US 1999-329744	19990610
	US 6184412	B1	20010206	US 1999-329405	19990610
	CA 2310985	AA	20001210	CA 2000-2310985	20000605
PRAI	US 1999-329405	A	19990610		
	US 1999-329744	A	19990610		

OS MARPAT 134:42876
AB N-alk(en)oxy(or aryloxy)carbonyl isothiocyanates and their derivs. are prepd. by reacting haloformates XCOOR1 (R1 = C1-8 alkyl, C2-4 alkenyl, C6-10 aryl; X = halogen atom; e.g., Me chloroformate) with thiocyanates MSCN (M = alkali metal, alk. earth metal, lead, NH4; e.g., NaSCN) in the presence of catalytic amt. of N,N-dialk(en)ylarylamines (e.g., N,N-dimethylaniline) in aq. solvents or org. solvents to form N,N-dialk(en)ylarylamines (e.g., N-methoxycarbonyl isothiocyanate), and optionally reacting the N,N-dialk(en)ylarylamines with R4YH (R4 = C1-10 alkyl, C6-10 aryl, C1-8 alkoxy; Y = O, S, NR5; R5 = H, R4; e.g., methanol) to form N-alk(en)oxy(or aryloxy)carbonyl isothiocyanate derivs. (e.g., N-methoxycarbonyl-O-methylthionocarbamate) in high yield and purity.
IT **39142-28-4P 39142-31-9P**
RL: IMF (Industrial manufacture); **PREP (Preparation)**
(prepn. of N-alk(en)oxy(or aryloxy)carbonyl isothiocyanates and their derivs. in the presence of N,N-dialkylarylamine catalysts)
RN 39142-28-4 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), dimethyl ester (9CI) (CA INDEX NAME)



RN 39142-31-9 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), dipropyl ester (9CI) (CA INDEX NAME)



RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 4 OF 39 CAPLUS COPYRIGHT 2002 ACS
AN 2000:553548 CAPLUS

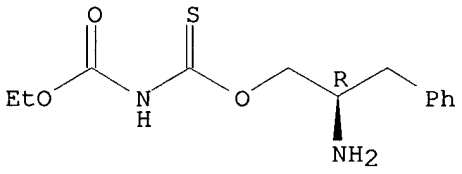
V. Balasubramanian

DN 133:150360
TI Preparation of 2-amino-2-phenylethyl thiocarbamates and analogs as nervous system agents
IN Choi, Yong Moon; Kim, Yong Kil
PA SK Corporation, S. Korea
SO PCT Int. Appl., 75 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000046191	A1	20000810	WO 1999-KR59	19990205
	W: AU, CA, CN, JP, KR, RU				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 9921890	A1	20000825	AU 1999-21890	19990205
	EP 1149076	A1	20011031	EP 1999-901985	19990205
	R: BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
PRAI	WO 1999-KR59	A	19990205		

OS MARPAT 133:150360
AB R(CH2)lCH[(CH2)nNR3R4](CH2)mOCSNR1R2 [I; R = (un)substituted Ph; R1-R4 = H, (cyclo)alkyl, aryl; NR1R2,NR3R4 = heterocyclyl; l,n = 0 or 1; m = 1 or 2] were prepd. Thus, Me3CO2CNHCHPhCH2OH was treated with NaH/CS2 and the product deprotected to give H2NCHPhCH2OCSNH2. Data for biol. activity of I were given.
IT **235439-25-5P 235439-26-6P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); **PREP (Preparation)**; USES (Uses)
(prepn. of 2-amino-2-phenylethyl thiocarbamates and analogs as nervous system agents)
RN 235439-25-5 CAPLUS
CN Carbamic acid, [[(2R)-2-amino-3-phenylpropoxy]thioxomethyl]-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)

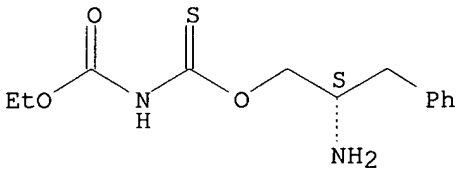
Absolute stereochemistry.



● HCl

RN 235439-26-6 CAPLUS
CN Carbamic acid, [[(2S)-2-amino-3-phenylpropoxy]thioxomethyl]-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)

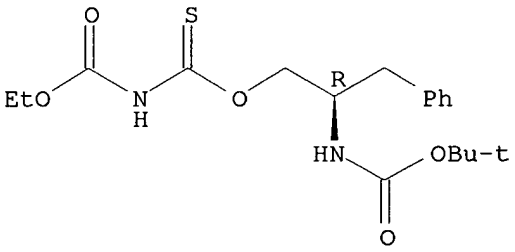
Absolute stereochemistry.



● HCl

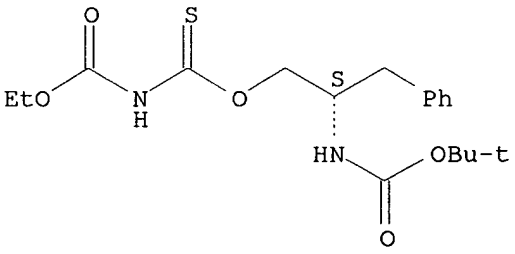
IT **235439-48-2P 235439-49-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); **PREP (Preparation)**; RACT (Reactant or reagent)
(prepn. of 2-amino-2-phenylethyl thiocarbamates and analogs as nervous system agents)
RN 235439-48-2 CAPLUS
CN 4,9-Dioxa-2,7-diazaundecanoic acid, 10,10-dimethyl-8-oxo-6-(phenylmethyl)-3-thioxo-, ethyl ester, (6R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 235439-49-3 CAPLUS
CN 4,9-Dioxa-2,7-diazaundecanoic acid, 10,10-dimethyl-8-oxo-6-(phenylmethyl)-3-thioxo-, ethyl ester, (6S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

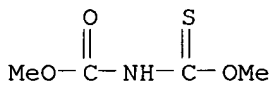
L6 ANSWER 5 OF 39 CAPLUS COPYRIGHT 2002 ACS
AN 2000:344129 CAPLUS
DN 132:321675

V. Balasubramanian

TI Process for manufacturing N-alkoxy(or aryloxy)carbonyl isothiocyanate derivatives using N,N-dialkylarylamines as catalysts
IN Kulkarni, Shekhar V.
PA Bayer Corporation, USA
SO U.S., 5 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6066754	A	20000523	US 1999-329744	19990610
	EP 1059289	A1	20001213	EP 2000-110990	20000529
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	CA 2310984	AA	20001210	CA 2000-2310984	20000605
	BR 2000002599	A	20010102	BR 2000-2599	20000608
	CN 1277190	A	20001220	CN 2000-118085	20000609
	JP 2001026576	A2	20010130	JP 2000-173668	20000609
PRAI	US 1999-329405	A	19990610		
	US 1999-329744	A	19990610		

OS CASREACT 132:321675; MARPAT 132:321675
AB N-alkoxy(or aryloxy)carbonyl isothiocyanate derivs. R1O2CNHC(:S)YR4 [R1 = C1-8 alkyl, C2-4 alkenyl, C6-10 aryl; R4 = C1-10 alkyl, C6-10 aryl, C1-8 alkoxy; Y = O, S, NR5; R5 = H, R4] (e.g., N-methoxycarbonyl-O-Me thionocarbamate) are prepd. by reacting a haloformate ester XCO2R1 (X = halogen) (e.g., Me chloroformate) with a thiocyanate MSCN (M = alkali metal, alk. earth metal, NH4) (e.g., sodium thiocyanate) in the presence of an org. solvent (e.g., MIBK) and a catalytic amt. of an N,N-dialkylarylamine (e.g., N,N-dimethylaniline) to produce an N-alkoxy(or aryloxy)carbonyl isothiocyanate intermediate S:C:NCO2R1 (e.g., N-methoxycarbonyl isothiocyanate) which then undergoes an addn. reaction with an alc., mercaptan, or amine R4YH (e.g., methanol) to give the N-alkoxy(or aryloxy)carbonyl isothiocyanate deriv. in high yield and purity.
IT **39142-28-4P**
RL: SPN (Synthetic preparation); **PREP (Preparation)**
(process for manufg. N-alkoxy(or aryloxy)carbonyl isothiocyanate derivs. using N,N-dialkylarylamines as catalysts)
RN 39142-28-4 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), dimethyl ester (9CI) (CA INDEX NAME)



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 6 OF 39 CAPLUS COPYRIGHT 2002 ACS
AN 1999:505668 CAPLUS
DN 131:144421
TI Preparation of aminoalkyl thiocarbamates as nervous system agents
IN Choi, Yong Moon; Kim, Yong Kil
PA Yukong Limited, S. Korea

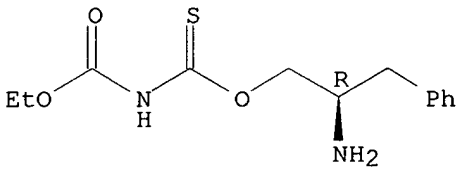
V. Balasubramanian

SO U.S., 23 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5935997	A	19990810	US 1998-6528	19980113

OS MARPAT 131:144421
AB Title compds. (enantiomeric) R(CH2)lCH[(CH2)nNR3R4](CH2)mCH2OCSNR1R2 [R = (un)substituted Ph; R1-R4 = H, (cyclo)alkyl, aryl; NR1R2,NR3R4 = heterocyclyl; l,m,n = 0 or 1] were prepd. as nervous system agents (no data). Thus, PhCH2CH(NHCO2CMe3)CH2OH was treated successively with NaH/CS2, MeI, and aq. NH3 and the product deprotected to give PhCH2CH(NH2)CH2OCSNH2.HCl.
IT **235439-25-5P 235439-26-6P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); **PREP (Preparation)**; USES (Uses)
(prepn. of aminoalkyl thiocarbamates as nervous system agents)
RN 235439-25-5 CAPLUS
CN Carbamic acid, [[(2R)-2-amino-3-phenylpropoxy]thioxomethyl]-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)

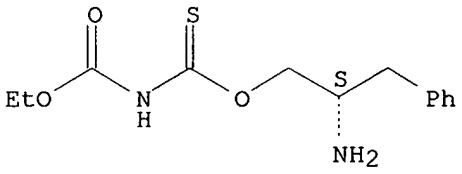
Absolute stereochemistry.



● HCl

RN 235439-26-6 CAPLUS
CN Carbamic acid, [[(2S)-2-amino-3-phenylpropoxy]thioxomethyl]-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.



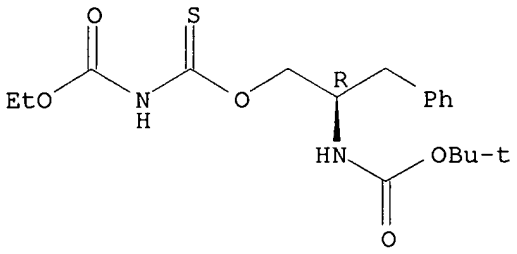
● HCl

IT **235439-48-2P 235439-49-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); **PREP**

V. Balasubramanian

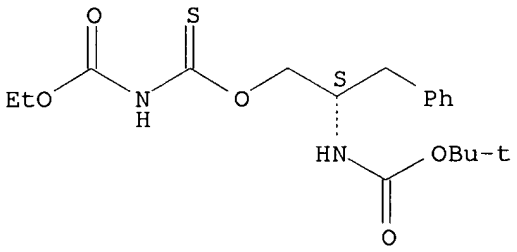
(Preparation); RACT (Reactant or reagent)
(prepn. of aminoalkyl thiocarbamates as nervous system agents)
RN 235439-48-2 CAPLUS
CN 4,9-Dioxa-2,7-diazaundecanoic acid, 10,10-dimethyl-8-oxo-6-(phenylmethyl)-3-thioxo-, ethyl ester, (6R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 235439-49-3 CAPLUS
CN 4,9-Dioxa-2,7-diazaundecanoic acid, 10,10-dimethyl-8-oxo-6-(phenylmethyl)-3-thioxo-, ethyl ester, (6S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 7 OF 39 CAPLUS COPYRIGHT 2002 ACS
AN 1999:417398 CAPLUS
DN 131:58831
TI Process for preparing alkoxytriazolinones
IN Conrad, Michael; Lantzsch, Reinhard; Desai, Vijay C.; Kulkarni, Shekhar V.
PA Bayer Corporation, USA; Bayer Aktiengesellschaft
SO U.S., 6 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5917050	A	19990629	US 1998-22262	19980211
	CA 2320118	AA	19990819	CA 1999-2320118	19990130
	WO 9941243	A1	19990819	WO 1999-EP616	19990130

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,

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            MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
            TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
        RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
            FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
            CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
    AU 9928308        A1   19990830       AU 1999-28308    19990130
    BR 9907834        A    20001024       BR 1999-7834     19990130
    EP 1054872        A1   20001129       EP 1999-908835   19990130
    EP 1054872        B1   20020911
        R:  AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL
    JP 2002503654     T2   20020205       JP 2000-531438   19990130
PRAI US 1998-22262    A    19980211
    WO 1999-EP616     W    19990130
OS  CASREACT 131:58831; MARPAT 131:58831
GI
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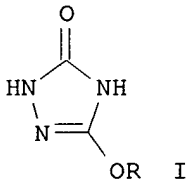


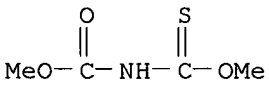
I

AB Alkoxytriazolinones I (R = alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, aryl, arylalkyl) are prepd. by reacting thioimidodicarboxylic diesters R1O2CNHC(S)OR (R as defined; R1 = alkyl, arylalkyl, aryl) with hydrazine, hydrazine hydrate or an acid adduct of hydrazine. The reaction is conducted in the presence of a diluent and, optionally, in the presence of a basic reaction auxiliary, and at temps. between -10.degree. C. and +100.degree. C.

IT **39142-28-4P 59701-63-2P**
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); **PREP (Preparation)**; RACT (Reactant or reagent)
(prepn. of alkoxytriazolinones)

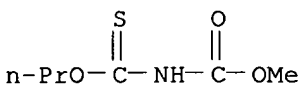
RN 39142-28-4 CAPLUS

CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), dimethyl ester (9CI) (CA INDEX NAME)



RN 59701-63-2 CAPLUS

CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 1-methyl 3-propyl ester (9CI) (CA INDEX NAME)

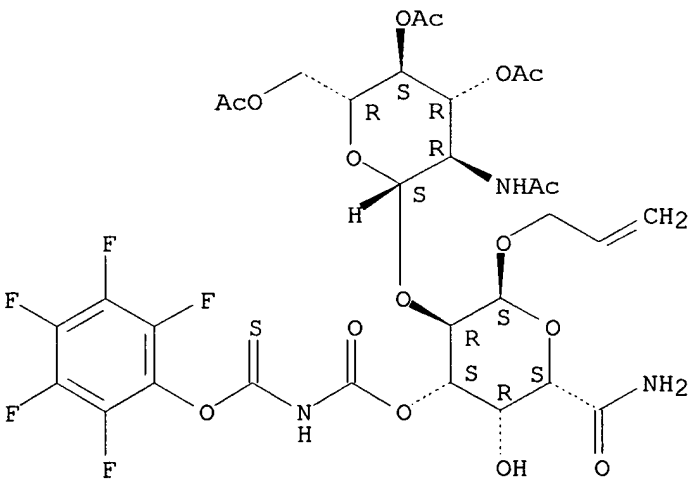


V. Balasubramanian

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 8 OF 39 CAPLUS COPYRIGHT 2002 ACS
AN 1999:120546 CAPLUS
DN 130:209903
TI Synthesis and transglycosylase-inhibiting properties of a disaccharide analog of moenomycin A lacking substitution at C-4 of unit F
AU Riedel, Sylvia; Donnerstag, Astrid; Hennig, Lothar; Welzel, Peter; Richter, Joachim; Hobert, Kurt; Muller, Dietrich; Van Heijenoort, Jean
CS Institut fur Organische Chemie, Universitat Leipzig, Leipzig, D-04103, Germany
SO Tetrahedron (1999), 55(7), 1921-1936
CODEN: TETRAB; ISSN: 0040-4020
PB Elsevier Science Ltd.
DT Journal
LA English
AB A disaccharide analog of moenomycin A lacking the OH group in the 4-position of the uronic acid moiety has been synthesized using the Saito deoxygenation reaction as key step. This analog does not inhibit the transglycosylase (PBP), a key enzyme in the biosynthesis of bacterial peptidoglycan. The result demonstrates the importance of this OH group for the binding of disaccharide moenomycin analogs to the enzyme.
IT **220974-61-8P**
RL: SPN (Synthetic preparation); **PREP (Preparation)**
(prepn. and transglycosylase-inhibiting properties of a disaccharide analog of moenomycin A)
RN 220974-61-8 CAPLUS
CN .alpha.-D-Galactopyranosiduronamide, 2-propenyl 2-O-[3,4,6-tri-O-acetyl-2-(acetylamino)-2-deoxy-.beta.-D-glucopyranosyl]-, 3-[[(pentafluorophenoxy)thioxomethyl]carbamate] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

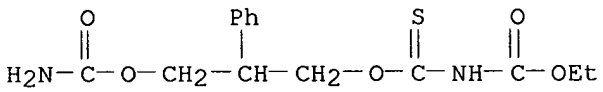
L6 ANSWER 9 OF 39 CAPLUS COPYRIGHT 2002 ACS
AN 1996:716300 CAPLUS

V. Balasubramanian

DN 125:328310
TI Novel carbamate compounds having N-substituted thiocarbamoyl group, useful as CNS agents, and process for preparing the same
IN Choi, Yong Moon; Han, Dong Il; Kim, Hyung Cheol
PA Yukong Limited, S. Korea
SO PCT Int. Appl., 22 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9632378	A1	19961017	WO 1996-KR50	19960410
	W: CA, CN, JP				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	US 5817858	A	19981006	US 1996-629619	19960409
	CA 2217758	AA	19961017	CA 1996-2217758	19960410
	EP 820440	A1	19980128	EP 1996-909387	19960410
	EP 820440	B1	20010829		
	R: BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, SE				
	CN 1181067	A	19980506	CN 1996-193143	19960410
	CN 1070851	B	20010912		
	JP 11503446	T2	19990326	JP 1996-530904	19960410
	ES 2163010	T3	20020116	ES 1996-909387	19960410
	CN 1335305	A	20020213	CN 2001-101607	20010117
PRAI	KR 1995-8309	A	19950410		
	WO 1996-KR50	W	19960410		

OS MARPAT 125:328310
AB 3-O-(N-Substituted-thiocarbamoyl)-2-phenyl-1,3-propanediol carbamates H2NCO2CH2CHPhCH2OC(S)NR1R2 (I) are disclosed [wherein R1, R2 = H, C1-8 alkyl, 5- to 7-membered aliph. cyclic radical optionally contg. .ltoreq. 2 N or O atoms; both R1 and R2 .noteq. H, and total C in R1 and R2 = 1-16; or R1 = H and R2 = C1-8 alkoxycarbonyl or (un)substituted Ph]. I are very effective for prophylaxis and treatment of central nervous system disorders including nervous muscular pain, epilepsy, and cerebral apoplexy (no data). For instance, 2-phenyl-1,3-propanediol monocarbamate in THF was treated sequentially with NaH, CS2, and MeI to give 78% H2NCO2CH2CHPhCH2OC(S)SMe. This intermediate was treated with aq. MeNH2 in THF to give 95% title compd. I [R1 = H, R2 = Me].
IT **183671-26-3P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); **PREP (Preparation)**; USES (Uses)
(prepn. of (thiocarbamoyl)phenylpropanediol carbamates as CNS agents)
RN 183671-26-3 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)OH), 3-[3-[(aminocarbonyl)oxy]-2-phenylpropyl] 1-ethyl ester (9CI) (CA INDEX NAME)



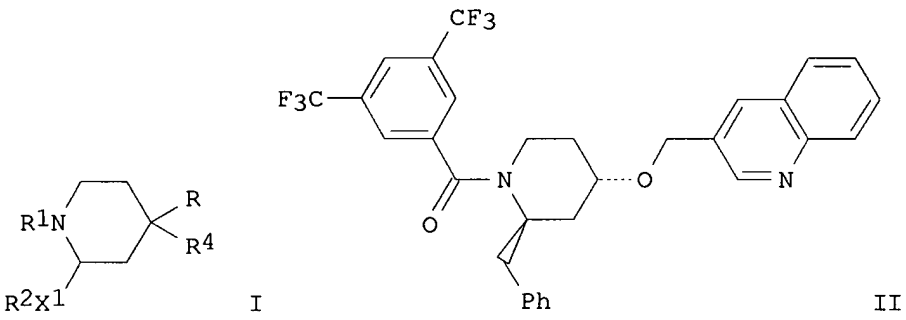
L6 ANSWER 10 OF 39 CAPLUS COPYRIGHT 2002 ACS
AN 1995:823077 CAPLUS
DN 123:228001

V. Balasubramanian

TI Preparation of N-benzoyl-4-acyl- or alkoxypiperidines as substance P receptor antagonists
IN Ofner, Silvio; Roggo, Silvio; Schilling, Walter; Veenstra, Siem J.
PA Ciba-Geigy A.-G., Switz.
SO PCT Int. Appl., 71 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9511895	A1	19950504	WO 1994-EP3394	19941014
	W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, JP, KG, KP, KR, KZ, LK, LR, LT, LV, MD, MG, MN, NO, NZ, PL, RO, RU, SI, SK, TJ, TT, UA, US, UZ, VN				
	RW: KE, MW, SD, SZ, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9478561	A1	19950522	AU 1994-78561	19941014
PRAI	CH 1993-3223		19931026		
	WO 1994-EP3394		19941014		

OS MARPAT 123:228001
GI



I II

AB Title compds. [I; R = X[C(:X4)]nX2X3R3; R1 = aryl(oxy)alkyl, heteroarylalkyl, aroyl, etc.; R2 = cycloalkyl, (un)substituted (hetero)aryl; R3 = (un)substituted (hetero)aryl; R3 = alkyl or (un)esterified or -amidated CO2H when X2 = imino and X3 = alkylene; R4 = H, alkyl, aryl; X,X4 = O or S; X1 = bond, CH2, CO, etc.; X2 = bond, (alkyl)imino, alkylene; X3 = bond, alkylene; n = 1; N = 0 when X2 = alkylene and X3 = bond] were prepd. Thus, EtOCH2N(CO2CH2Ph)CH(CH2Ph)CH2CH :CH2 (prepn. given) was treated with HCO2H and the deprotected product sequentially N- and O-acylated with 3,5-(F3C)C6H3COCl and 3-bromomethylquinoline, resp., to give title compd. II which had IC50 of 7.6x10-4.mu.M against substance P-induced increase in inositol monophosphate content of human astrocytoma cells (U-373 MG) in vitro.

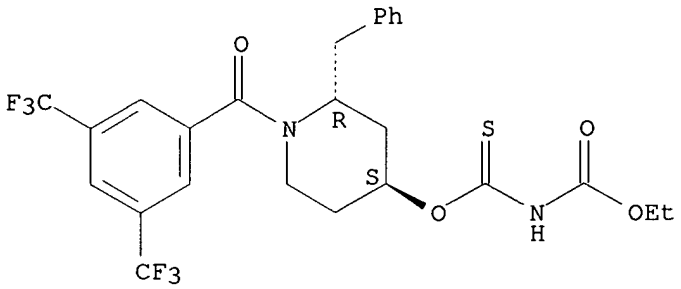
IT **168271-79-2P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); **PREP (Preparation)**; USES (Uses)
(prepn. of N-benzoyl-4-acyl- or alkoxypiperidines as substance P receptor antagonists)

RN 168271-79-2 CAPLUS

V. Balasubramanian

CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 3-[1-[3,5-bis(trifluoromethyl)benzoyl]-2-(phenylmethyl)-4-piperidinyl] 1-ethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

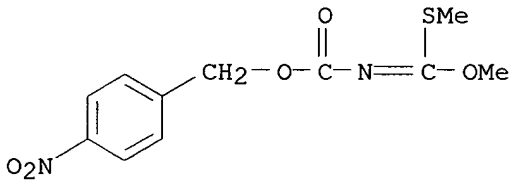


L6 ANSWER 11 OF 39 CAPLUS COPYRIGHT 2002 ACS
AN 1995:294083 CAPLUS
DN 123:285785
TI Preparation of aromatic amidine derivatives as inhibitors of human blood coagulation factor for treatment and prevention of influenza
IN Ikeuchi, Kyoshi; Takase, Hiroyuki; Murakami, Yoichi
PA Daiichi Seiyaku Co, Japan
SO Jpn. Kokai Tokkyo Koho, 79 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06227971	A2	19940816	JP 1993-17536	19930204

OS MARPAT 123:285785
GI For diagram(s), see printed CA Issue.
AB The title compds. [I; R1 = H, alkoxy; R2 = H, alkyl, alkoxy, CO2H, alkoxycarbonyl, carboxyalkyl, alkoxycarbonylalkyl; R3 = H, CO2H, alkoxycarbonyl, carboxyalkyl, alkoxycarbonylalkyl, carboxyalkoxy, alkoxycarbonylalkoxy; R4 = H, OH, alkyl, alkoxy; A = C1-4 alkylene which may be substituted by 1-2 of hydroxyalkyl, CO2H, alkoxycarbonyl, carboxyalkyl, and alkoxycarbonylalkyl; X = single bond, O, S, CO; Y = 5- or 6-membered (un)satd. carbocyclyl or heterocyclyl, NH2, or aminoalkyl each of which may be substituted; ring Z = pyrrole, 1,2-dihydropyrrole, furan, thiofuran, imidazole, oxazole, thiazole, benzene, tetrahydrobenzene, or cyclopentadiene ring] are prepd. Thus, Et 3-(5-cyano-2-benzofuranyl)-2-(4-hydroxyphenyl)propionate was condensed with (2S)-1-tert-butoxycarbonyl-2-pyrrolidinemethanol in the presence of Ph3P and di-Et azodicarboxylate in THF to give ether (II; R = cyano, R5 = Me3CO2C) which was treated with HCl(g) in ethanol and then with NH3 in EtOH to give amidine II.2HCl (R = amidino, R5 = H). Title compd. (III.2HCl) showed IC50 of 5.04 .mu.g/mL against human blood coagulation.
IT **150613-44-8P**, p-Nitrobenzyl N-[methoxy(methylthio)methylene]carbamate
RL: RCT (Reactant); SPN (Synthetic preparation); **PREP (Preparation)**; RACT (Reactant or reagent)
(intermediate for prepn. of arom. amidine derivs. as inhibitors of

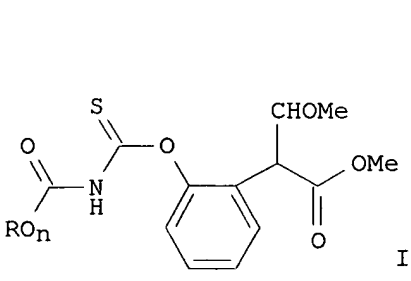
human blood coagulation factor)
RN 150613-44-8 CAPLUS
CN Carbonimidothioic acid, [[(4-nitrophenyl)methoxy]carbonyl]-, dimethyl ester (9CI) (CA INDEX NAME)



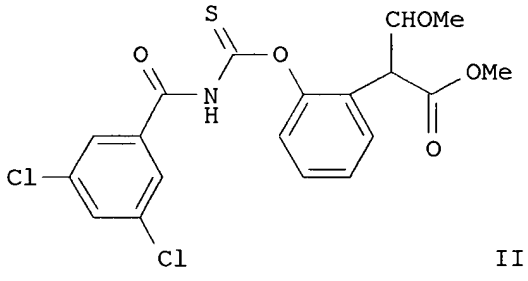
L6 ANSWER 12 OF 39 CAPLUS COPYRIGHT 2002 ACS
AN 1995:290316 CAPLUS
DN 122:80880
TI Preparation of 3-methoxy-2-phenylacrylate esters as pesticides.
IN Gayer, Herbert; Gerdes, Peter; Dehne, Heinz-Wilhelm
PA Bayer A.-G., Germany
SO Ger. Offen., 12 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 4316431	A1	19941124	DE 1993-4316431	19930517
	WO 9426705	A1	19941124	WO 1994-EP1417	19940504
	W: AU, BB, BG, BR, BY, CA, CN, CZ, FI, HU, JP, KR, KZ, LK, NO, NZ, PL, RO, RU, SK, UA, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9468427	A1	19941212	AU 1994-68427	19940504
	EP 699183	A1	19960306	EP 1994-916931	19940504
	R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
	CN 1123543	A	19960529	CN 1994-192134	19940504
	JP 08510217	T2	19961029	JP 1994-524901	19940504
	US 5728729	A	19980317	US 1995-553360	19951113
PRAI	DE 1993-4316431		19930517		
	WO 1994-EP1417		19940504		

OS MARPAT 122:80880
GI



I



II

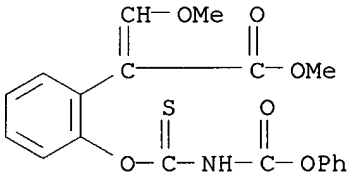
V. Balasubramanian

AB Title compds. [I; R = (substituted) alkyl, cycloalkyl, aryl; n = 0, 1], were prepd. Thus, Me 2-(2-hydroxyphenyl)-3-methoxyacrylate in THF at. 0.degree. was treated with 3,5-dichlorobenzoyl isothiocyanate and Et3N; the mixt. was stirred 16 h at room temp. to give title compd. II. Several I gave superior activity against Venturia inaequalis on apples.

IT **160156-92-3P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); **PREP (Preparation)**; USES (Uses)
(prepn. of 3-methoxy-2-phenylacrylate esters as pesticides)

RN 160156-92-3 CAPLUS

CN Benzeneacetic acid, .alpha.-(methoxymethylene)-2-[[(phenoxycarbonyl)amino]thioxomethoxy]-, methyl ester (9CI) (CA INDEX NAME)



L6 ANSWER 13 OF 39 CAPLUS COPYRIGHT 2002 ACS

AN 1994:629969 CAPLUS

DN 121:229969

TI Deoxygenation of aliphatic alcohols via reduction of new thioxocarbamate derivatives

AU Oba, Makoto; Nishiyama, Kozaburo

CS Department of Material Science and Technology, Tokai University, Numazu, 410-03, Japan

SO Synthesis (1994), (6), 624-8
CODEN: SYNTBF; ISSN: 0039-7881

DT Journal

LA English

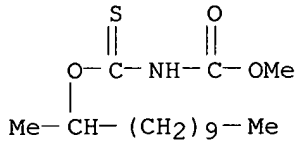
OS CASREACT 121:229969

AB N-Acylthioxocarbamates R1CONHC(:S)OR2 (R1 = e.g., Me), obtained by the reaction of alcs. R2OH (e.g., 1- and 2-dodecanol, cyclododecanol, cholest-5-en-3.beta.-ol) with acyl isothiocyanates, were reduced by tributylstannane or triphenylsilane under radical conditions to give deoxygenated products R2H of the corresponding alcs. in good yields. An application to regioselective deuteration using tributyldeuteriostannane is also examd.

IT **158299-73-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); **PREP (Preparation)**; RACT (Reactant or reagent)
(prepn. and redn. of, by tributylstannane under radical conditions)

RN 158299-73-1 CAPLUS

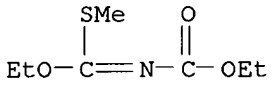
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 1-methyl 3-(1-methylundecyl) ester (9CI) (CA INDEX NAME)



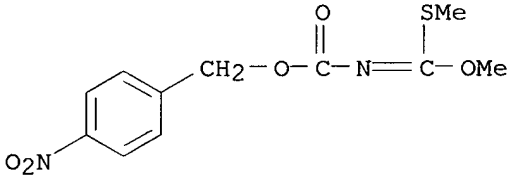
L6 ANSWER 14 OF 39 CAPLUS COPYRIGHT 2002 ACS
AN 1994:107001 CAPLUS
DN 120:107001
TI Heterocyclic and aromatic amidine derivatives and salts thereof
IN Nagahara, Takayasu; Kanaya, Naoaki; Inamura, Kazue; Yokoyama, Yukio
PA Daiichi Pharmaceutical Co., Ltd., Japan
SO Eur. Pat. Appl., 94 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 540051	A1	19930505	EP 1992-118705	19921030
	EP 540051	B1	19960403		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
	ZA 9208276	A	19930506	ZA 1992-8276	19921026
	IL 103564	A1	19981206	IL 1992-103564	19921027
	NO 9204164	A	19930503	NO 1992-4164	19921029
	DE 4236574	A1	19930506	DE 1992-4236574	19921029
	CA 2081836	AA	19930501	CA 1992-2081836	19921030
	AU 9227470	A1	19930506	AU 1992-27470	19921030
	AU 666137	B2	19960201		
	JP 05208946	A2	19930820	JP 1992-292892	19921030
	JP 2879718	B2	19990405		
	US 5300851	A	19940405	US 1992-969369	19921030
	HU 65890	A2	19940728	HU 1992-3433	19921030
	AT 136293	E	19960415	AT 1992-118705	19921030
	ES 2088073	T3	19960801	ES 1992-118705	19921030
	PL 170312	B1	19961129	PL 1992-296439	19921030
	JP 10291931	A2	19981104	JP 1998-85454	19921030
	CZ 284381	B6	19981111	CZ 1992-3276	19921030
	SK 279807	B6	19990413	SK 1992-3276	19921030
	RU 2139851	C1	19991020	RU 1992-4542	19921030
	CN 1072677	A	19930602	CN 1992-114304	19921031
	CN 1049434	B	20000216		
	US 5576343	A	19961119	US 1995-468304	19950606
	US 5620991	A	19970415	US 1995-471173	19950606
	CN 1168885	A	19971231	CN 1997-110745	19970416
	CN 1168886	A	19971231	CN 1997-110748	19970416
	CN 1062865	B	20010307		
	US 5866577	A	19990202	US 1997-924504	19970905
	US 5962695	A	19991005	US 1998-131235	19980807
PRAI	JP 1991-286088	A	19911031		
	JP 1991-285919	A	19911031		
	JP 1992-292892	A3	19921030		
	US 1992-969369	B1	19921030		
	US 1992-969396	B1	19921030		
	US 1994-282571	B3	19940729		

US 1995-469593 A1 19950606
US 1997-924504 A3 19970905
OS MARPAT 120:107001
GI For diagram(s), see printed CA Issue.
AB The title compds. I (where the benzeno-Z ring is indolyl, benzimidazolyl, naphthyl, etc.; R = HN:CNH2; R1 = H, alkoxy; R2 = H, alkyl, alkoxy, etc.; R3 = H, carboxyl, etc.; R4 = H, OH, alkyl, alkoxy; A = C1-4 alkylene; X = single bond, O, S, CO; n = 0-4; Y = heterocyclic or cyclic hydrocarbon moiety) useful as anticoagulant agents were prepd. by treating I (R = CN) with R5OH (R5 = alkyl) to give I (R = R5OC:NH) followed by treatment with NH3. Some of the prepd. compds. showed strong anticoagulant activity through their specific anti-FXa activity in comparison with DABE.
IT **51291-79-3P 150613-44-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); **PREP (Preparation)**; RACT (Reactant or reagent)
(prepn. and reaction of, in prepn. of amidine anticoagulants)
RN 51291-79-3 CAPLUS
CN Carbonimidothioic acid, (ethoxycarbonyl)-, O-ethyl S-methyl ester (9CI) (CA INDEX NAME)



RN 150613-44-8 CAPLUS
CN Carbonimidothioic acid, [[(4-nitrophenyl)methoxy]carbonyl]-, dimethyl ester (9CI) (CA INDEX NAME)

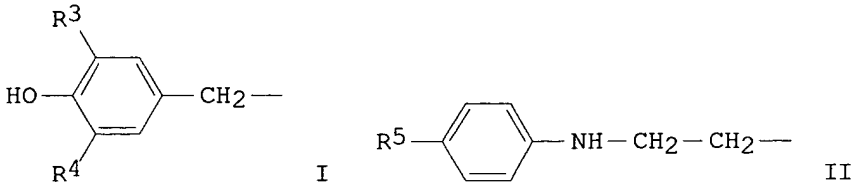


L6 ANSWER 15 OF 39 CAPLUS COPYRIGHT 2002 ACS
AN 1993:653473 CAPLUS
DN 119:253473
TI Lubricating oil containing an antiwear-antioxidant and friction-reducing additive
IN Beltzer, Morton; Habeeb, Jacob Joseph; Colle, Karla Schall
PA Exxon Research and Engineering Co., USA
SO Eur. Pat. Appl., 13 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 546830	A1	19930616	EP 1992-311280	19921210
EP 546830	B1	19961023		
R: BE, DE, FR, GB, IT, NL				
US 5254275	A	19931019	US 1992-912539	19920713

V. Balasubramanian

PRAI US 1991-805757 19911212
US 1992-912539 19920713
OS MARPAT 119:253473
GI

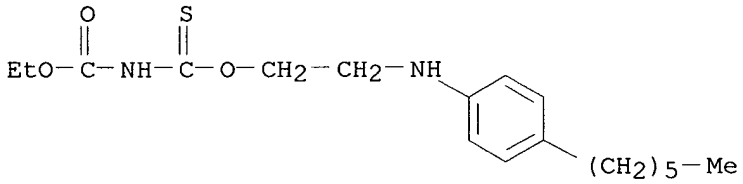


I II

AB A lubricating oil compn. comprises (a) a base oil and (b) an O-alkyl-N-alkoxycarbonylthionocarbamate having the general formula R1OC(:S)NHC(:O)OR2, where R1 is a hindered phenol having the formula I or an aniline moiety of the formula II, R2 = C1-20 alkyl, aryl, alkaryl, arylalkyl groups, or their substituted derivs., R3, R4 = each a C1-12 alkyl group, and R5 = C2-12 alkyl group. Prefered additives are O-(3,5-di-tert-butyl-4-hydroxybenzyl)-N-ethoxycarbonylthionocarbamate and N,N-((bis-2-hydroxyethyl)-4-hexylanilino)ethoxycarbonylthionocarbamate.

IT **150929-13-8P**
RL: **PREP (Preparation)**
(prepn. of, antifriction-antioxidants-antiwear additive, for lubricating oils)

RN 150929-13-8 CAPLUS
CN Thioimidodicarbonic acid ((HCO2)NH(HCOS)), O-ethyl O-[2-[(4-hexylphenyl)amino]ethyl] ester (9CI) (CA INDEX NAME)

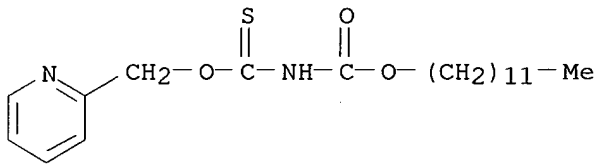


L6 ANSWER 16 OF 39 CAPLUS COPYRIGHT 2002 ACS
AN 1993:427477 CAPLUS
DN 119:27477
TI The reactions of some alkoxycarbonyl isothiocyanates with alcohols, phenols and amines
AU Katritzky, Alan R.; Bernard, Marek K.; Long, Qiu He; Xie, Linghong; Malhotra, Nageshwar; Beltzer, Morton
CS Cent. Heterocycl. Compd., Univ. Florida, Gainesville, FL, 32611-2046, USA
SO Organic Preparations and Procedures International (1993), 25(1), 83-90
CODEN: OPPIAK; ISSN: 0030-4948
DT Journal
LA English
AB Reactions of isothiocyanates RO2CNCS (R = Et, dodecyl) with alcs., phenols, and amines were studied. Thus, treatment of dodecyloxycarbonyl isothiocyanate with alcs. gave N-alkoxythiocarbonylcarbamate esters and

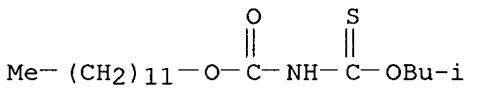
with N-heterocycles it gave R1C(S)NHCO2C12H25 (R1 = 1,2,4-triazol-1(or 4)-yl, 1- or 2-benzotriazolyl, or 1-imidazolyl) or R2CO2C12H25 (R2 = 1-benzimidazolyl, 1-pyrazolyl). EtO2CNCS reacted with 4,3,5-HO(Me3C)2C6H2R3 (I; R3 = CH2OH, H) to give I [R3 = OC(S)NHCO2Et or C(S)NHCO2Et, resp.].

IT **148204-38-0P 148204-39-1P 148204-40-4P 148204-41-5P 148204-42-6P 148204-53-9P 148204-56-2P**
RL: SPN (Synthetic preparation); **PREP (Preparation)**
(prepn. of)

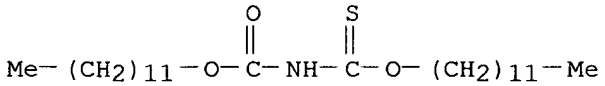
RN 148204-38-0 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 1-dodecyl ester 3-(2-pyridinylmethyl) ester (9CI) (CA INDEX NAME)



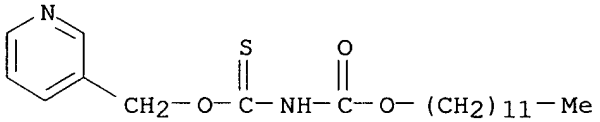
RN 148204-39-1 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 1-dodecyl ester 3-(2-methylpropyl) ester (9CI) (CA INDEX NAME)



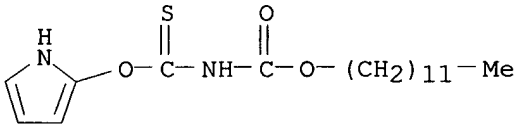
RN 148204-40-4 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), didodecyl ester (9CI) (CA INDEX NAME)



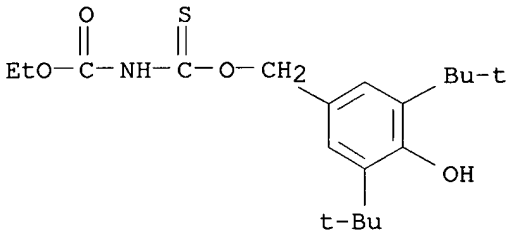
RN 148204-41-5 CAPLUS
CN Thioimidodicarbonic acid, 1-dodecyl ester 3-(3-pyridinylmethyl) ester (9CI) (CA INDEX NAME)



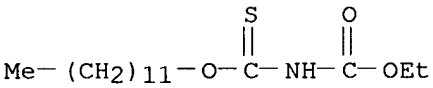
RN 148204-42-6 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 1-dodecyl ester 3-1H-pyrrol-2-yl ester (9CI) (CA INDEX NAME)



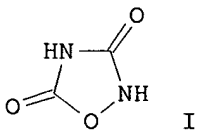
RN 148204-53-9 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 3-[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl] 1-ethyl ester (9CI) (CA INDEX NAME)



RN 148204-56-2 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 3-dodecyl 1-ethyl ester (9CI) (CA INDEX NAME)



L6 ANSWER 17 OF 39 CAPLUS COPYRIGHT 2002 ACS
AN 1991:449530 CAPLUS
DN 115:49530
TI A convenient synthesis of 1,2,4-oxadiazolidine-3,5-dione
AU Renaut, P.; Thomas, D.; Bellamy, F. D.
CS Lab. Fournier, Cent. Rech., Fontaine les Dijon, F-21121, Fr.
SO Synthesis (1991), (4), 265-6
CODEN: SYNTBF; ISSN: 0039-7881
DT Journal
LA English
OS CASREACT 115:49530
GI



I

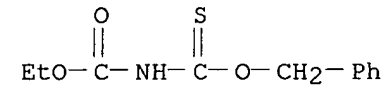
AB Title compd. I was prepd. by condensation of PhCH2OH with EtO2CNCS to give EtO2CNHC(S)OCH2Ph which cyclized with NH2OH to give 3-benzyloxy-1,2,4-

oxadiazol-5(4H)-one which was debenzylated using BBr3.

IT **59965-72-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); **PREP (Preparation)**
(prepn. and cyclocondensation of, with hydroxylamine)

RN 59965-72-9 CAPLUS

CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 1-ethyl 3-(phenylmethyl) ester (9CI) (CA INDEX NAME)



L6 ANSWER 18 OF 39 CAPLUS COPYRIGHT 2002 ACS

AN 1991:122217 CAPLUS

DN 114:122217

TI The Friedel-Crafts reaction of phenols with carbethoxy isothiocyanate

AU Jagodzinski, Tadeusz

CS Dep. Org. Chem., Tech. Univ. Szczecin, Szczecin, 71-065, Pol.

SO Org. Prep. Proced. Int. (1990), 22(6), 755-60
CODEN: OPPIAK; ISSN: 0030-4948

DT Journal

LA English

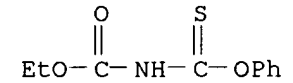
OS CASREACT 114:122217

AB The Freidel-Crafts reaction of phenol derivs. with EtO2CNCS (I) was dependent on the homogeneity of the reaction mixt. Thus, the reaction of C6H5OH with I in the presence of AlCl3 in CH2Cl2 or THF/Et3N gave 98% O-alkylated product, i.e., PhOC6H4OC(S)NHCO2Et. The reaction of C6H5OH with I in the presence of AlCl3 in MeNO3 gave 89% C-alkylated product, i.e., 4-HOC6H4C(S)NHCO2Et. The reaction of 2-naphthalenol with I gave 3,4-dihydro-2-oxo-2H-naphth[1,2-e]-1,3-oxazin-4-thione. A reaction mechanism was discussed.

IT **132554-63-3P**
RL: SPN (Synthetic preparation); **PREP (Preparation)**
(prepn. of)

RN 132554-63-3 CAPLUS

CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 1-ethyl 3-phenyl ester (9CI) (CA INDEX NAME)



L6 ANSWER 19 OF 39 CAPLUS COPYRIGHT 2002 ACS

AN 1990:514622 CAPLUS

DN 113:114622

TI Preparation of ethoxycarbonyl isothiocyanate using a pyridine or quinoline catalyst

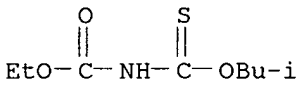
AU Lewellyn, Morris E.; Wang, Samuel S.; Strydom, Peter J.

CS Chem. Res. Div., American Cyanamid Co., Stamford, CT, 06904, USA

SO J. Org. Chem. (1990), 55(18), 5230-1
CODEN: JOCEAH; ISSN: 0022-3263

V. Balasubramanian

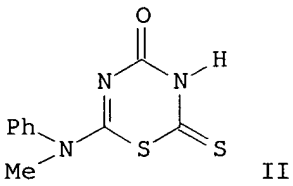
DT Journal
LA English
OS CASREACT 113:114622
AB A process for the prepn. of EtO2CNCS (I) from ClCO2Et and NaSCN using pyridine or quinoline as a catalyst in an aq. medium is presented. This process leads to high yields of the desired product with only trace amts. of the thiocyanate being formed. The reactions of nucleophiles with I, prepd. in situ, can be carried out in high yields and purity.
IT **103122-66-3P**
RL: SPN (Synthetic preparation); **PREP (Preparation)**
(prepn. of)
RN 103122-66-3 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 1-ethyl 3-(2-methylpropyl) ester (9CI) (CA INDEX NAME)



L6 ANSWER 20 OF 39 CAPLUS COPYRIGHT 2002 ACS
AN 1988:37225 CAPLUS
DN 108:37225
TI Preparation of iodopropargylurethanes as pesticides
IN Brandes, Wilhelm; Bunnenberg, Rolf; Reinecke, Paul; Paulus, Wilfried; Schmitt, Hans Georg
PA Bayer A.-G. , Fed. Rep. Ger.
SO Ger. Offen., 11 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3607624	A1	19870910	DE 1986-3607624	19860307

OS CASREACT 108:37225
GI

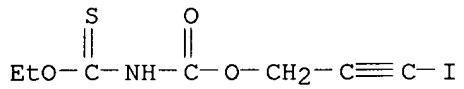


II

AB IC.tplbond.CCH2OCONHCSR [I; R = (substituted) arylthio, alkylthio, alkoxy, alkylamino, etc.] are prepd. as pesticides. A mixt. of 50 mmol each of IC.tplbond.CCH2OH and thiadiazinone II THF was stirred at 0-25.degree. for several hours in the presence of Et3N to give 26% I (R = NMePh). I (R = 4-ClC6H4S) proved effective in tests as an algicide, fungicide, and pesticide.

V. Balasubramanian

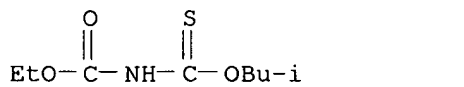
IT **112111-84-9P**
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); **PREP (Preparation)**
(prepn. of, as pesticide, fungicide and algicide)
RN 112111-84-9 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 3-ethyl 1-(3-iodo-2-propynyl) ester (9CI) (CA INDEX NAME)



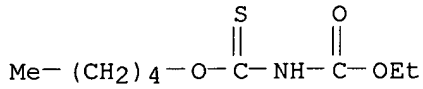
L6 ANSWER 21 OF 39 CAPLUS COPYRIGHT 2002 ACS
AN 1987:439240 CAPLUS
DN 107:39240
TI Process for the production of isothiocyanate derivatives
IN Fu, Yun-lung; Strydom, Peter J.
PA American Cyanamid Co., USA
SO U.S., 6 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 4659853	A	19870421	US 1986-821297	19860122

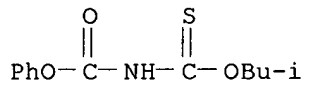
AB Carbonyl isothiocyanate derivs. (i.e. thionocarbamates, thioureas, and dithiocarbamates) were prepd. in high yields in a one-pot process wherein RO2CX (R = C1-8 alkyl, C3-4 alkenyl, C6-10 aryl; X = halo) were treated with MSCN (M = alkali or alk. earth metal, Pb, NH4) and subsequently with R1YH (R1 = C1-10 alkyl, C6-10 aryl, C1-8 alkoxy; Y = O, S, NR2; R2 = H, R1). NaSCN reacted with ClCO2Et in the presence of pyridine to give EtO2CNCS, which was esterified with iso-BuOH to give EtO2CNHC(S)OCH2CHMe2 (85%).
IT **103122-66-3P 103122-67-4P 109202-54-2P**
109202-55-3P 109202-58-6P
RL: SPN (Synthetic preparation); **PREP (Preparation)**
(prepn. of)
RN 103122-66-3 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 1-ethyl 3-(2-methylpropyl) ester (9CI) (CA INDEX NAME)



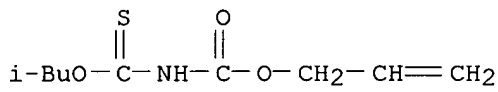
RN 103122-67-4 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 1-ethyl 3-pentyl ester (9CI) (CA INDEX NAME)



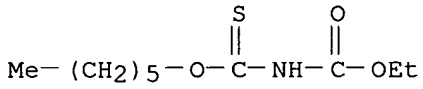
RN 109202-54-2 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 3-(2-methylpropyl) 1-phenyl ester (9CI) (CA INDEX NAME)



RN 109202-55-3 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 3-(2-methylpropyl) 1-(2-propenyl) ester (9CI) (CA INDEX NAME)



RN 109202-58-6 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 1-ethyl 3-hexyl ester (9CI) (CA INDEX NAME)



L6 ANSWER 22 OF 39 CAPLUS COPYRIGHT 2002 ACS
AN 1986:427656 CAPLUS
DN 105:27656
TI Collectors and froth flotation processes for metal sulfide ores
IN Fu, Yun Lung; Wang, Samuel Shan Ning; Nagaraj, Devarayasamudram Ramachandran
PA American Cyanamid Co., USA
SO Brit. UK Pat. Appl., 36 pp.
CODEN: BAXXDU
DT Patent
LA English
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 2163068	A1	19860219	GB 1985-19737	19850806
	GB 2163068	B2	19880928		
	US 4556482	A	19851203	US 1984-641659	19840817
	US 4556483	A	19851203	US 1984-641660	19840817
	US 4584097	A	19860422	US 1984-641657	19840817
	US 4595493	A	19860617	US 1984-641658	19840817
	CA 1278111	A1	19901218	CA 1985-488780	19850815

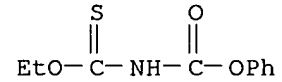
V. Balasubramanian

	ZA 8506249	A	19860326	ZA 1985-6249	19850816
	US 4657688	A	19870414	US 1985-806585	19851209
	US 32827	E	19890110	US 1987-79629	19870730
	GB 2193660	A1	19880217	GB 1987-18337	19870803
	GB 2193660	B2	19880928		
PRAI	US 1984-641657		19840817		
	US 1984-641658		19840817		
	US 1984-641659		19840817		
	US 1984-641660		19840817		
	GB 1985-19737		19850806		
	US 1985-806585		19851209		

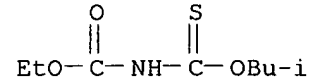
AB Collectors for sulfide minerals suitable for a broad pH range comprise hydrocarbyloxycarbonyl thionocarbamate(I) or similar thiourea(II) compds. added at 0.005-0.5 lb/ton ore. Froth flotation at pH <10 (preferably 4-10) decreases lime consumption and permits a selective rejection of pyrite and pyrrhotite. The I compds. are R1OC(:O)N(H)C(S)OR2 having R1 and R2 as hydrocarbyl, alkyl polyether, and/or arom. radicals. optionally substituted with polar halogen, nitrile, or nitro groups, preferably with R1 as C1-6 alkyl or aryl and R2 as C1-8 alkyl. The II compds. are R3OC(:O)N(H)C(S)NR1R2 having R1 as H or R2, esp. H or C1-6 alkyl; R2 as a hydroxycarbyl, hydrocarboxy, or arom. radical, preferably C1-8 alkyl, allyl, alkaryl, or aryl; and R3 as hydrocarbyl, alkyl polyether, or arom. radical, preferably C1-6 alkyl or aryl. Thus, powd. sulfide ore contg. 0.3 Cu and 1.7% pyrite was slurried at natural pH 5.5 for 30% solids, and conditioned for flotation with collector and frother. In tests with o-iso-Pr N-(ethoxycarbonyl) thiocarbamate at 0.054 lb/ton ore the Cu recovery was 90.8% at conc. grade 9.6% and pyrite recovery 67.3%, compared with 73.2, 2.7, and 57.1 resp. for o-iso-Pr N-ethylthiocarbamate.

IT **58902-91-3P 103122-66-3P 103122-67-4P**
RL: IMF (Industrial manufacture); **PREP (Preparation)**
(prepn. of, for collectors in froth flotation)

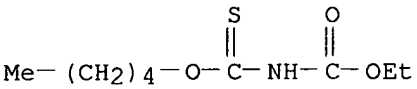
RN 58902-91-3 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 3-ethyl 1-phenyl ester (9CI) (CA INDEX NAME)



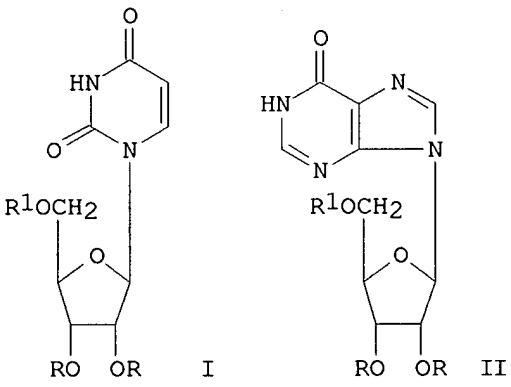
RN 103122-66-3 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 1-ethyl 3-(2-methylpropyl) ester (9CI) (CA INDEX NAME)



RN 103122-67-4 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 1-ethyl 3-pentyl ester (9CI) (CA INDEX NAME)



L6 ANSWER 23 OF 39 CAPLUS COPYRIGHT 2002 ACS
AN 1985:149700 CAPLUS
DN 102:149700
TI Synthesis and cytostatic activity of 5'-O-substituted nucleosides
AU Garcia-Lopez, M. T.; Fernandez-Resa, P.; De las Heras, F. G.; Mendez-Castrillon, P. P.
CS Inst. Quim. Med., CSIC, Madrid, 28006, Spain
SO An. Quim., Ser. C (1984), 80(2), 168-71
CODEN: AQSBD6; ISSN: 0211-1357
DT Journal
LA Spanish
GI

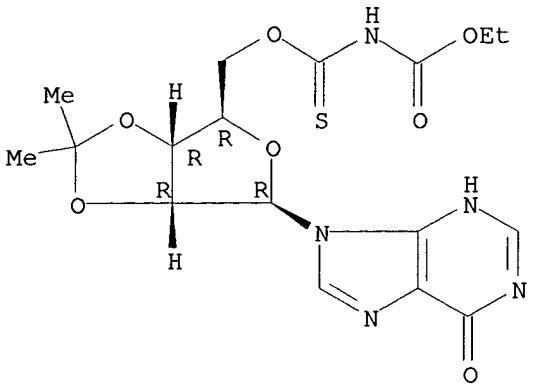


AB Uridine derivs. I and inosine derivs. II (R = H, Ac or R2 = Me2C; R1 = ClCH2CO, ICH2CO, EtO2CNHCS, H2NCO) were prepd. by acylation of I and II (R2 = Me2C, R1 = H) and optional iodine-chlorine exchange and deprotection reactions. The iodoacetylated nucleosides, esp. I (R2 = Me2C, R1 = ICH2CO), showed significant cytostatic activity against HeLa cell cultures.

IT **95578-11-3P 95578-12-4P**
RL: SPN (Synthetic preparation); **PREP (Preparation)**
(prepn. and cytostatic activity of)

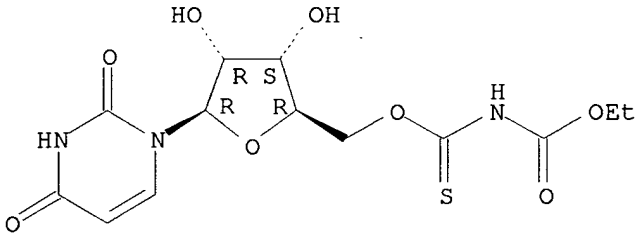
RN 95578-11-3 CAPLUS
CN Inosine, 2',3'-O-(1-methylethylidene)-, 5'-ester with thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)) 1-ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



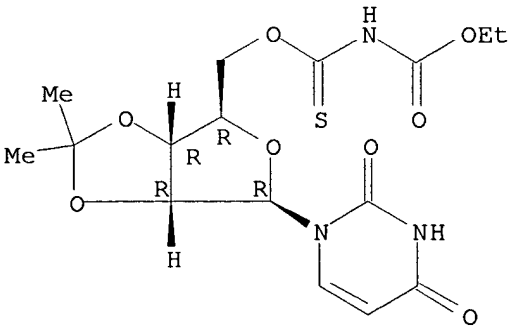
RN 95578-12-4 CAPLUS
CN Uridine, 5'-ester with thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)) 1-ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT **95578-10-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); **PREP (Preparation)**
(prepn., reactions, and cytostatic activity of)
RN 95578-10-2 CAPLUS
CN Uridine, 2',3'-O-(1-methylethylidene)-, 5'-ester with thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)) 1-ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



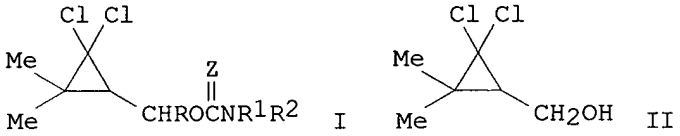
L6 ANSWER 24 OF 39 CAPLUS COPYRIGHT 2002 ACS

V. Balasubramanian

AN 1984:570775 CAPLUS
DN 101:170775
TI 2,2-Dichloro-3,3-dimethylcyclopropylmethyl carbamate derivatives as fungicides
PA Nihon Tokushu Noyaku Seizo K. K., Japan
SO Jpn. Kokai Tokkyo Koho, 13 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

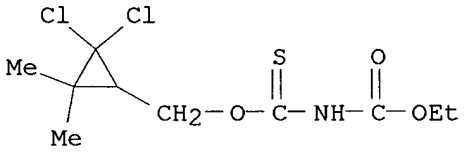
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 59101453	A2	19840612	JP 1982-211239	19821203

PI
GI

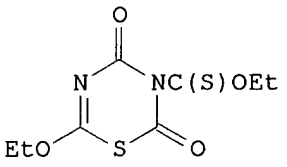


AB Twenty title carbamates (I; R, R1 = H, Me; R2 = H, alkyl, aryl; R1R2N = heterocycle; Z = O, S), effective fungicides at 200 mg/m2, were prepd. Thus, a mixt. of 1.7 g II and 1.0 g MeNCO in CH2Cl2 contg. NaOMe was refluxed 12 h to give 1.90 g I (R = R1 = H, R2 = Me, Z = O).

IT **92533-76-1P**
RL: SPN (Synthetic preparation); **PREP (Preparation)**
(prepn. of)
RN 92533-76-1 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 3-[(2,2-dichloro-3,3-dimethylcyclopropyl)methyl] 1-ethyl ester (9CI) (CA INDEX NAME)



L6 ANSWER 25 OF 39 CAPLUS COPYRIGHT 2002 ACS
AN 1982:162095 CAPLUS
DN 96:162095
TI Thioacyl isocyanates. XVI. Ethoxy(thiocarbonyl) isocyanate
AU Goerdeler, Joachim; Schulze, Andreas
CS Inst. Org. Chem. Biochem., Univ. Bonn, Bonn, D-5300/1, Fed. Rep. Ger.
SO Chem. Ber. (1982), 115(3), 1252-5
CODEN: CHBEAM; ISSN: 0009-2940
DT Journal
LA German
GI



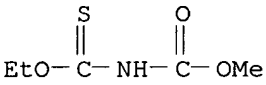
II

AB EtOC(S)NCO (I) was prepd. by treating EtOC(S)NH2 with (COCl)2 in HCCl3. I dimerizes readily to give II, which is a good starting material for the monomer. The I/II ratio was detd. in PhNO2 at 93.degree. and the reactions of I with some nucleophiles are reported.

IT **59386-42-4P**
RL: SPN (Synthetic preparation); **PREP (Preparation)**
(prepn. of)

RN 59386-42-4 CAPLUS

CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 3-ethyl 1-methyl ester (9CI) (CA INDEX NAME)



L6 ANSWER 26 OF 39 CAPLUS COPYRIGHT 2002 ACS

AN 1982:104273 CAPLUS

DN 96:104273

TI Carbonylthiocarbonylamine compounds

IN Jochims, Johannes Christian; Bunnenberg, Rolf

PA Bayer A.-G. , Fed. Rep. Ger.

SO Ger. Offen., 26 pp.
CODEN: GWXXBX

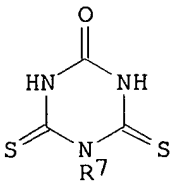
DT Patent

LA German

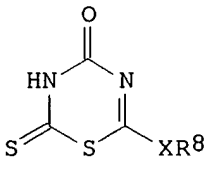
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3010204	A1	19810924	DE 1980-3010204	19800317

GI



I



II

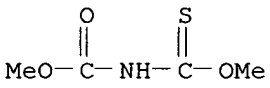
AB Title compds. RCONHCSR1 [R = R2X, R3XCSNH [R2 = alkyl, aryl; R3 = aryl, X

= O, S, NR4 (R4 = H, alkyl, aralkyl, aryl)]; R1 = ZR5 [R5 = alkyl, aralkyl, aryl, Z = O, S, NR6 (R6 = H, alkyl, aralkyl, aryl)]; R, R1 = morpholino, piperidino, piperazino, thiomorpholino]; the triazines I (R7 = aralkyl, aryl) and thiadiazines II (R8 = R4, morpholino, piperidino, piperazino; thiomorpholino) were prepd. Thus, CO(SCN)2, prepd. from ammonium thiocyanate and Cl2CO, was treated with PhCH2NH2 to give 6-(benzylamino)-2,3-dihydro-2-thioxo-4H-1,3,5-thiadiazin-4-one, which was rearranged and the resulting 1-benzyl-1,2,3,4,5,6-hexahydro-2,6-dithioxo-1,3,5-triazin-4-one treated with PhNH2 to give 1-benzyl-7-phenyl-2,6-dithiotriuret. CO(SCN)2 was treated with (Me2CH)2NH to give 1,5-diisopropyl-2-thiobiuret.

IT **39142-28-4P**
RL: SPN (Synthetic preparation); **PREP (Preparation)**
(prepn. of)

RN 39142-28-4 CAPLUS

CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), dimethyl ester (9CI) (CA INDEX NAME)



L6 ANSWER 27 OF 39 CAPLUS COPYRIGHT 2002 ACS

AN 1981:532748 CAPLUS

DN 95:132748

TI Carbonyl diisothiocyanate

AU Bunnenberg, Rolf; Jochims, Johannes C.

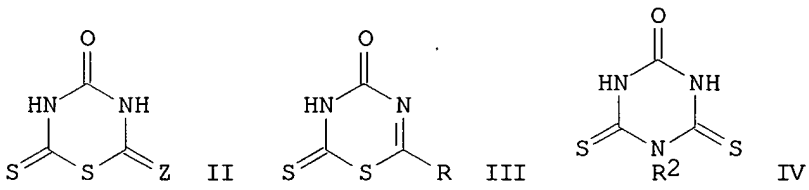
CS Fachber. Chem., Univ. Konstanz, Konstanz, D-7750, Fed. Rep. Ger.

SO Chem. Ber. (1981), 114(6), 2075-86
CODEN: CHBEAM; ISSN: 0009-2940

DT Journal

LA German

GI

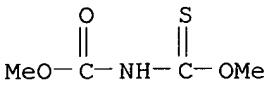


AB CO(NCS)2 (I) was prepd. in 50-70% yield by treating NH4SCN with COCl2 in THF at 3.degree.. I, a very strong electrophile, is sol. in all org. solvents, but reacts explosively with Me2SO. Treating I with H2O or H2S gave II (Z = O, S) or with alcs., mercaptans, or amines gave III (R = OMe, OPh, SEt, Et2N, PhNH, etc.); excess nucleophile cleaved the heterocyclic ring with addn. or substitution of the resulting NCS group. Thus, I reacted with excess NH3 to give H2NCONHCSNH2; treating III (R = NHPh) with PhNH2 or PhCH2NH2 gave PhNHCSNHCONHCSNHPh and PhCH2NHCONHCSNHPh, resp. Thermal rearrangement of III (R = NHPh, NHCH2Ph) gave IV (R2 = Ph, CH2Ph).

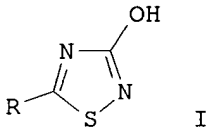
IT **39142-28-4P**

V. Balasubramanian

RL: SPN (Synthetic preparation); **PREP (Preparation)**
(prepn. of)
RN 39142-28-4 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), dimethyl ester (9CI) (CA INDEX NAME)

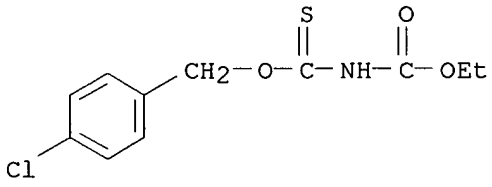


L6 ANSWER 28 OF 39 CAPLUS COPYRIGHT 2002 ACS
AN 1980:6471 CAPLUS
DN 92:6471
TI Effect of electrophilic reagents on the 3-hydroxy-1,2,4-thiadiazoles
AU Taliani, Laurent; Perronnet, Jacques
CS Cent. Rech., Roussel-Uclaf, Romainville, 93230, Fr.
SO J. Heterocycl. Chem. (1979), 16(5), 961-71
CODEN: JHTCAD; ISSN: 0022-152X
DT Journal
LA French
GI



I

AB Electrophilic reagents may react either with the hydroxyl group in position 3, or with the 2-nitrogen atom of 3-hydroxy-1,2,4-thiadiazoles (I; R = alkoxy, alkylthio, NMe2). Hard electrophiles, such as acid chlorides, substitute on OH, whereas soft electrophiles (isocyanates, acid anhydrides) substitute on N.
IT **59965-65-0P**
RL: RCT (Reactant); SPN (Synthetic preparation); **PREP (Preparation)**
(prepn. and cyclization of)
RN 59965-65-0 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 3-[(4-chlorophenyl)methyl] 1-ethyl ester (9CI) (CA INDEX NAME)



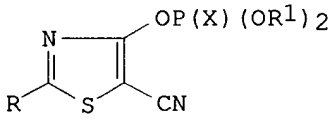
L6 ANSWER 29 OF 39 CAPLUS COPYRIGHT 2002 ACS

V. Balasubramanian

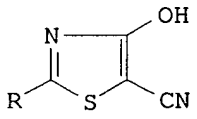
AN 1976:478112 CAPLUS
DN 85:78112
TI Pesticidal organophosphorus thiazole derivatives
IN Perronnet, Jacques; Taliani, Laurent
PA Roussel-UCLAF, Fr.
SO Ger. Offen., 35 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2541720	A1	19760408	DE 1975-2541720	19750918
	FR 2285397	A1	19760416	FR 1974-31841	19740920
	US 4020076	A	19770426	US 1975-611710	19750909
	JP 51059859	A2	19760525	JP 1975-112201	19750918
	ES 441054	A1	19770301	ES 1975-441054	19750918
	BE 833618	A1	19760319	BE 1975-160203	19750919
	DK 7504207	A	19760321	DK 1975-4207	19750919
	DK 138747	C	19790402		
	DK 138747	B	19781023		
	NL 7511066	A	19760323	NL 1975-11066	19750919
	BR 7506044	A	19760803	BR 1975-6044	19750919
	CH 602776	A	19780731	CH 1975-12172	19750919
	CA 1056384	A1	19790612	CA 1975-236072	19750919
	GB 1502890	A	19780308	GB 1975-38757	19750922
PRAI	FR 1974-31841		19740920		

GI



I

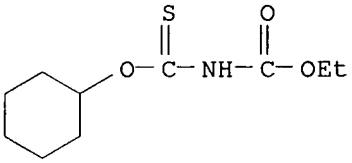


II

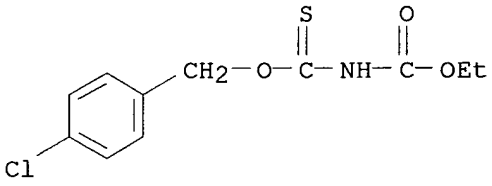
AB Thiazolyl phosphates I (R = OEt, OBu, cyclohexyloxy, OCH2C6H4Cl-4, SEt, OCH2Ph, SCH2C6H4Cl-4, OCH2C6H4Me-4; R1 = Me, Et; X = O, S) were prepd. by cyclizing EtO2CNHCSR with ClCH2CN and treating the thiazoles II with ClP(X)(OR1)2. I (R = OEt, R1 = Et, X = S) at 5 ppm gave 99% kill of Drosophila melanogaster in 1 hr. I also demonstrated acaricidal and nematocidal properties.

IT **59965-62-7P 59965-65-0P 59965-72-9P**
59965-80-9P
RL: SPN (Synthetic preparation); **PREP (Preparation)**
(prepn. and condensation of, with chloroacetonitrile)

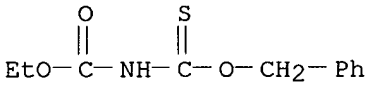
RN 59965-62-7 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 3-cyclohexyl 1-ethyl ester (9CI) (CA INDEX NAME)



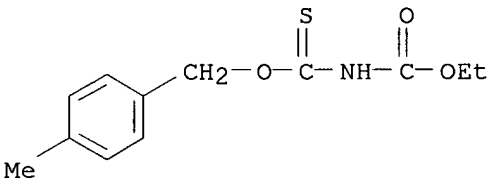
RN 59965-65-0 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 3-[(4-chlorophenyl)methyl] 1-ethyl ester (9CI) (CA INDEX NAME)



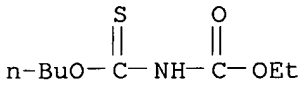
RN 59965-72-9 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 1-ethyl 3-(phenylmethyl) ester (9CI) (CA INDEX NAME)



RN 59965-80-9 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 1-ethyl 3-[(4-methylphenyl)methyl] ester (9CI) (CA INDEX NAME)



IT **59965-60-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); **PREP (Preparation)**
(prepn. and reaction of, with potassium methylate)
RN 59965-60-5 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 3-butyl 1-ethyl ester, potassium salt (9CI) (CA INDEX NAME)



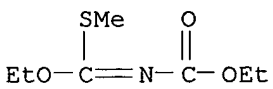
L6 ANSWER 30 OF 39 CAPLUS COPYRIGHT 2002 ACS
AN 1976:43357 CAPLUS
DN 84:43357
TI Alkyl S-aralkyl imidothiocarbonates
IN Takiguchi, Daigaku; Miyazaki, Koshin; Kato, Kinpei; Yasuda, Yasushi; Wakai, Akira
PA Nippon Soda Co., Ltd., Japan
SO Japan. Kokai, 9 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 50014631	A2	19750215	JP 1973-66139	19730612

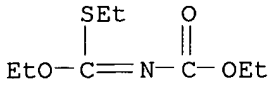
AB ROC(O)N:C(SR1)(XR2) (I; R = lower alkyl; R1, R2 = lower alkyl, lower alkenyl, PhCH2, halobenzyl; X = O, S) were prepd. by treating ROC(O)NHC(S)XR1 (II) with R22SO4 or R2Y (Y = halo). I were effective components for fungicides. Thus, 17.1 g Et2SO4 was added to a mixt. of 28 ml 4N NaOH and 16.5 g II (R = Me, R1 = Et, X = S) below 10.degree. and the mixt. kept 2 hr at 30-5.degree. to give 15 g I (R = Me, R1 = R2 = Et, X = S). Among 20 more I prepd. were (R, R1, R2, X given): Et, Et, Et, O; Me, PhCH2, Et, S; Me, Me, Et, O; and Me, Me, Et, S.

IT **51291-79-3P 57867-15-9P 57867-17-1P**
57867-19-3P 57867-24-0P 57867-26-2P
57867-28-4P 57867-29-5P 57867-30-8P
57867-31-9P
RL: SPN (Synthetic preparation); **PREP (Preparation)**
(prepn. of)

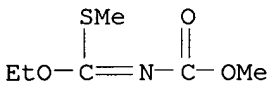
RN 51291-79-3 CAPLUS
CN Carbonimidothioic acid, (ethoxycarbonyl)-, O-ethyl S-methyl ester (9CI) (CA INDEX NAME)



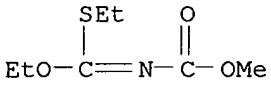
RN 57867-15-9 CAPLUS
CN Carbonimidothioic acid, (ethoxycarbonyl)-, diethyl ester (9CI) (CA INDEX NAME)



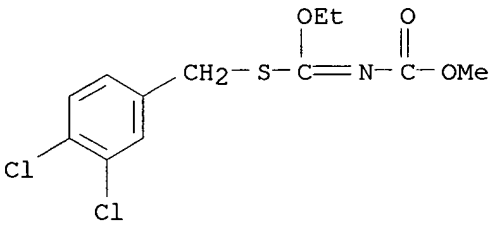
RN 57867-17-1 CAPLUS
CN Carbonimidothioic acid, (methoxycarbonyl)-, O-ethyl S-methyl ester (9CI) (CA INDEX NAME)



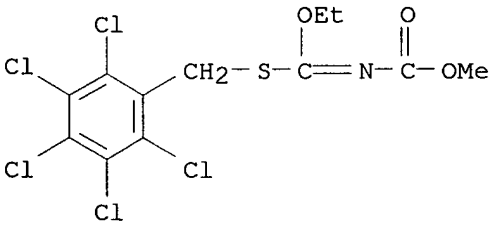
RN 57867-19-3 CAPLUS
CN Carbonimidothioic acid, (methoxycarbonyl)-, diethyl ester (9CI) (CA INDEX NAME)



RN 57867-24-0 CAPLUS
CN Carbonimidothioic acid, (methoxycarbonyl)-, S-[(3,4-dichlorophenyl)methyl] O-ethyl ester (9CI) (CA INDEX NAME)

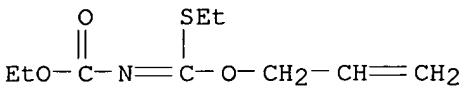


RN 57867-26-2 CAPLUS
CN Carbonimidothioic acid, (methoxycarbonyl)-, O-ethyl S-[(pentachlorophenyl)methyl] ester (9CI) (CA INDEX NAME)

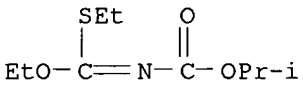


RN 57867-28-4 CAPLUS
CN Carbonimidothioic acid, (ethoxycarbonyl)-, S-ethyl O-2-propenyl ester

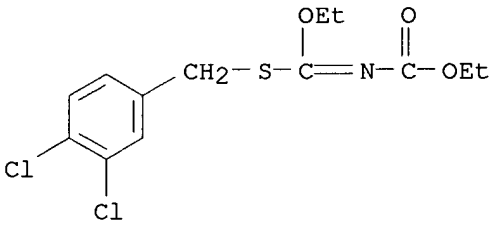
(9CI) (CA INDEX NAME)



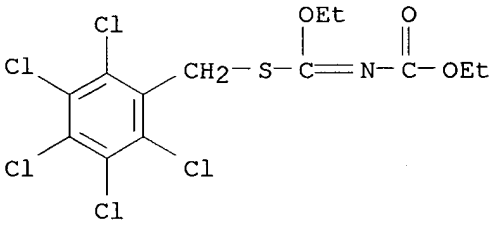
RN 57867-29-5 CAPLUS
CN Carbonimidothioic acid, [(1-methylethoxy)carbonyl]-, diethyl ester (9CI) (CA INDEX NAME)



RN 57867-30-8 CAPLUS
CN Carbonimidothioic acid, (ethoxycarbonyl)-, S-[(3,4-dichlorophenyl)methyl] O-ethyl ester (9CI) (CA INDEX NAME)



RN 57867-31-9 CAPLUS
CN Carbonimidothioic acid, (ethoxycarbonyl)-, O-ethyl S-[(pentachlorophenyl)methyl] ester (9CI) (CA INDEX NAME)



L6 ANSWER 31 OF 39 CAPLUS COPYRIGHT 2002 ACS
AN 1976:4965 CAPLUS
DN 84:4965
TI Insecticidal, acaricidal, and nematicidal O-triazolylthionophosphoric(phosphonic) acid esters or esteramides
IN Hoffmann, Hellmut; Hammann, Ingeborg; Homeyer, Bernhard; Stendel, Wilhelm
PA Bayer A.-G., Ger.
SO Ger. Offen., 45 pp.
CODEN: GWXXBX

V. Balasubramanian

DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2407304	A1	19750904	DE 1974-2407304	19740215
	SU 526275	D	19760825	SU 1975-2103867	19750211
	JP 50111231	A2	19750901	JP 1975-16963	19750212
	JP 50116476	A2	19750911	JP 1975-16962	19750212
	AT 7501061	A	19750715	AT 1975-1061	19750213
	AT 329078	B	19760426		
	BE 825478	A1	19750813	BE 1975-153312	19750213
	SE 7501614	A	19750821	SE 1975-1614	19750213
	DD 118514	C	19760312	DD 1975-184164	19750213
	PL 93295	P	19770530	PL 1975-178014	19750213
	NL 7501783	A	19750819	NL 1975-1783	19750214
	FR 2261285	A1	19750912	FR 1975-4667	19750214
	DK 7500557	A	19751013	DK 1975-557	19750214
	BR 7500909	A	19751202	BR 1975-909	19750214
	ZA 7500943	A	19760128	ZA 1975-943	19750214
	ES 434719	A1	19770201	ES 1975-434719	19750214
PRAI	DE 1974-2407304		19740215		

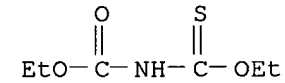
GI For diagram(s), see printed CA Issue.

AB Triazolyl phosphates I (R = R1 = OMe, OEt; R = OEt, R1 = NHCHMe2, NMe2, Ph; R2 = Me, allyl, CH2CN, CH2CH2CN, CH2CH:CHMe, CH2CMe:CH2; R3 = Me, Et, CHMe2) were prepd. by esterifying triazolols with RR1P(S)Cl. The triazolols were prepd. e.g. by cyclizing ethoxycarbonylthiosemicarbazides and alkylating the thiones. I are insecticides, acaricides, and nematocides. Thus I (R = R1 = OEt, R2 = CH2CN, R3 = Et) at 0.01% gave 100% kill of Phaedon cochleariae larva on cabbage leaves.

IT **5585-23-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); **PREP (Preparation)**
(prepn. and reaction of, with methylhydrazine)

RN 5585-23-9 CAPLUS

CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), diethyl ester (9CI) (CA INDEX NAME)



L6 ANSWER 32 OF 39 CAPLUS COPYRIGHT 2002 ACS

AN 1974:520638 CAPLUS

DN 81:120638

TI Acaricidal and insecticidal O-triazolyl phosphoro- and phosphonothioates

IN Hoffmann, Hellmut; Hammann, Ingeborg; Behrenz, Wolfgang; Homeyer, Bernhard; Stendel, Wilhelm

PA Bayer A.-G.

SO Ger. Offen., 51 pp.
CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

PI	DE 2301400	A1	19740718	DE 1973-2301400	19730112
	DE 2301400	C2	19841213		
	HU 167093	P	19750828	HU 1974-BA3011	19740108
	NL 7400309	A	19740716	NL 1974-309	19740109
	JP 49101544	A2	19740925	JP 1974-5644	19740110
	JP 57036886	B4	19820806		
	DD 110164	C	19741212	DD 1974-175936	19740110
	AT 321944	B	19750425	AT 1974-180	19740110
	CS 175366	P	19770531	CS 1974-170	19740110
	CH 588504	A	19770615	CH 1974-302	19740110
	JP 58038438	B4	19830823	JP 1974-5643	19740110
	BE 809633	A1	19740711	BE 1974-139713	19740111
	ZA 7400209	A	19741127	ZA 1974-209	19740111
	AU 7464434	A1	19750717	AU 1974-64434	19740111
	GB 1406984	A	19750924	GB 1974-1371	19740111
	ES 422212	A1	19760501	ES 1974-422212	19740111
	FR 2324640	A1	19770415	FR 1974-1061	19740111
	SE 400769	C	19780720	SE 1974-376	19740111
	CA 1050997	A1	19790320	CA 1974-189956	19740111
	SU 713527	D	19800130	SU 1974-1989776	19740111
	US 4229444	A	19801021	US 1978-907388	19780518
PRAI	DE 1973-2301400		19730112		
	US 1974-430435		19740103		
	US 1976-645971		19760102		

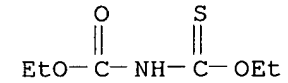
GI For diagram(s), see printed CA Issue.

AB Sixteen phosphoro- and phosphonothioates I (R = OMe, SMe, SCH2CN, or SCH2CH:CH2; R1 = Me, Et, or CHMe2; R3 = Et, Ph, OMe, OEt, or NHCHMe2; R4 = Me, Et, or Pr) were prepd. in 58-88% yield by reaction of II with ClP(S)R3OR4 and used as acaricides and insecticides.

IT **5585-23-9P 51291-77-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); **PREP (Preparation)**
(prepn. and reaction with thiophosphorus acids)

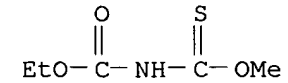
RN 5585-23-9 CAPLUS

CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), diethyl ester (9CI) (CA INDEX NAME)



RN 51291-77-1 CAPLUS

CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 1-ethyl 3-methyl ester (9CI) (CA INDEX NAME)



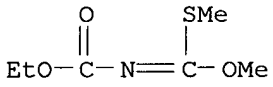
L6 ANSWER 33 OF 39 CAPLUS COPYRIGHT 2002 ACS

AN 1974:82888 CAPLUS

DN 80:82888

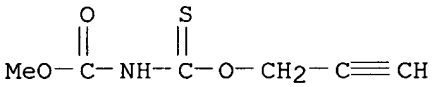
V. Balasubramanian

TI Purine studies. IX. Nucleophilic addition of barbituric acids to purines
AU Pendergast, William
CS Dep. Med. Chem., Aust. Natl. Univ., Canberra, Aust.
SO J. Chem. Soc., Perkin Trans. 1 (1973), (22), 2759-63
CODEN: JCPRB4
DT Journal
LA English
GI For diagram(s), see printed CA Issue.
AB Purines with barbituric and 2-thiobarbituric acid underwent addn. reaction across the 1,6-double bond. E.g. 2-aminopurine with 2-thio-barbituric acid and 2,3-dihydropurin-2(3H)-one with barbituric acid gave 83% adduct (I) and 48% adduct (II) resp. The uv and NMR spectra of the adducts were reported and discussed.
IT **51291-78-2P**
RL: SPN (Synthetic preparation); **PREP (Preparation)**
(prepn. of)
RN 51291-78-2 CAPLUS
CN Carbonimidothioic acid, (ethoxycarbonyl)-, dimethyl ester (9CI) (CA INDEX NAME)

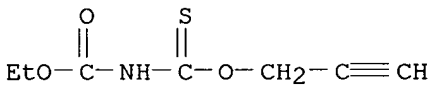


L6 ANSWER 34 OF 39 CAPLUS COPYRIGHT 2002 ACS
AN 1973:124479 CAPLUS
DN 78:124479
TI Organic sulfur compounds. X. Reactions of alkoxycarbonyl isothiocyanates with prim-.alpha.-acetylenic alcohol
AU Nagano, Mitsuo; Matsui, Takashi; Tobitsuka, Junzo; Oyamada, Kozo
CS Agric. Chem. Res. Lab., Sankyo Co., Ltd., Tokyo, Japan
SO Chem. Pharm. Bull. (1973), 21(1), 62-73
CODEN: CPBTAL
DT Journal
LA English
GI For diagram(s), see printed CA Issue.
AB The reactions of alkoxycarbonyl isothiocyanates and .alpha.-acetylenic alcs. gave N-alkoxycarbonyl-O-acetylenyl thiocarbamates, N-alkoxycarbonyl-S allenyl thiolcarbamates and 4-alkylidene-2-alkoxycarbonylimino-1,3-oxathiolanes. The reaction patterns are dependent on the substituents on the 3-positions of .alpha.-acetylenic alcs. 3-Phenyl-2-propyn-1-ol react smoothly with RO2CNCS (I) to give 1:1 adducts which cyclize immediately to the 1,3-oxathiolanes (II, R = Me, Et Bu, etc.; R1 = Ph). 2-Butyn-1-ol reacts slowly with I to give N-alkoxtcarbonyl-O-2- butynyl thiocarbamates, which cyclize to 4-ethylidene-1,3-oxathiolanes (II) (R = Me, Et, Bu, etc.; R1 Me) even in the presence of a base. In the case of 2- propyn-1-ol, HC:CCH2O-CSNHCO2R, H2C:- C:CHSCONHCO2R and II (R = Me, Et, Pr, etc.; R1 = H) are obtained. The cyclization mechanisms were detd. by using HC:CCH2OCSND- CP2CHMe2.
IT **37063-41-5P 37063-42-6P 37063-43-7P**
37063-44-8P 37063-45-9P 40914-41-8P
40914-47-4P 40914-50-9P 40914-51-0P
40914-54-3P 40914-56-5P 40914-57-6P
40914-58-7P 40914-72-5P 40942-44-7P
RL: SPN (Synthetic preparation); **PREP (Preparation)**

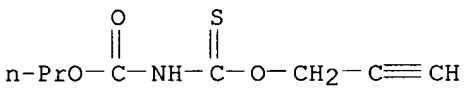
(prepn. of)
RN 37063-41-5 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 1-methyl 3-(2-propynyl) ester (9CI) (CA INDEX NAME)



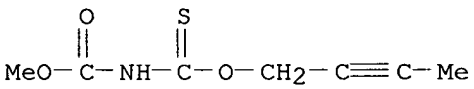
RN 37063-42-6 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 1-ethyl 3-(2-propynyl) ester (9CI) (CA INDEX NAME)



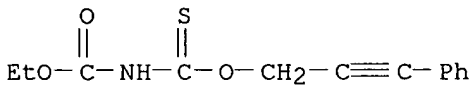
RN 37063-43-7 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 1-propyl 3-(2-propynyl) ester (9CI) (CA INDEX NAME)



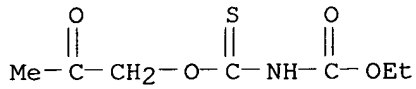
RN 37063-44-8 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 3-(2-butynyl) 1-methyl ester (9CI) (CA INDEX NAME)



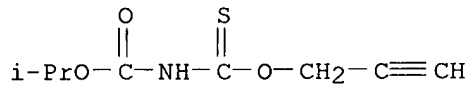
RN 37063-45-9 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 1-ethyl 3-(3-phenyl-2-propynyl) ester (9CI) (CA INDEX NAME)



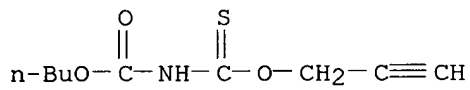
RN 40914-41-8 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 1-ethyl 3-(2-oxopropyl) ester (9CI) (CA INDEX NAME)



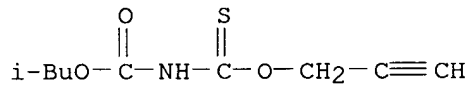
RN 40914-47-4 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 1-(1-methylethyl) 3-(2-propynyl) ester (9CI) (CA INDEX NAME)



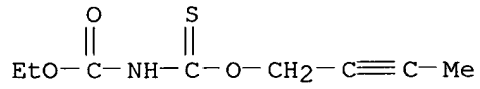
RN 40914-50-9 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 1-butyl 3-(2-propynyl) ester (9CI) (CA INDEX NAME)



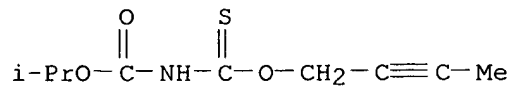
RN 40914-51-0 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 1-(2-methylpropyl) 3-(2-propynyl) ester (9CI) (CA INDEX NAME)



RN 40914-54-3 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 3-(2-butynyl) 1-ethyl ester (9CI) (CA INDEX NAME)

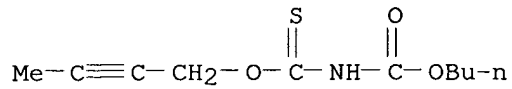


RN 40914-56-5 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 3-(2-butynyl) 1-(1-methylethyl) ester (9CI) (CA INDEX NAME)

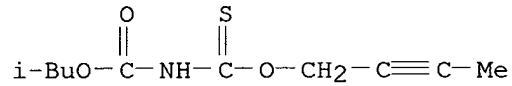


RN 40914-57-6 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 1-butyl 3-(2-butynyl) ester

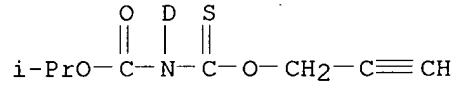
(9CI) (CA INDEX NAME)



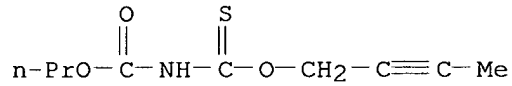
RN 40914-58-7 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 3-(2-butynyl) 1-(2-methylpropyl) ester (9CI) (CA INDEX NAME)



RN 40914-72-5 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NDC(S)(OH)), 1-(1-methylethyl) 3-(2-propynyl) ester (9CI) (CA INDEX NAME)



RN 40942-44-7 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 3-(2-butynyl) 1-propyl ester (9CI) (CA INDEX NAME)



L6 ANSWER 35 OF 39 CAPLUS COPYRIGHT 2002 ACS
AN 1973:97628 CAPLUS
DN 78:97628
TI Insecticidal thiazolo(thiono)phosphoric(or phosphonic) acid esters
PA Farbenfabriken Bayer A.-G.
SO Fr., 29 pp.
CODEN: FRXXAK
DT Patent
LA French
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2121065	A5	19720818	FR 1971-47274	19711229
	DE 2064307	A	19720706	DE 1970-2064307	19701229
PRAI	DE 1970-2064307		19701229		

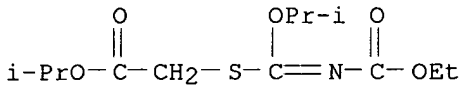
GI For diagram(s), see printed CA Issue.
AB Thiazolylphosphoric esters I (R = EtO, Et; X = O, S; R1 = Me, Et, Me2CH; R2 = Et, Me2CH) were prepd. in 59-85% yield by treating R(EtO)P(X)Cl with the appropriate 4-hydroxythiazole. O-Isopropyl-O-(2-ethoxy-5-

isopropoxycarbonylthiazol-4-yl) methylthiophosphonate was similarly prepd. The 4-hydroxythiazoles were obtained by cyclizing all EtO2CN:C(OR1)SCH2CO2R2.

IT **40509-96-4P**
RL: SPN (Synthetic preparation); **PREP (Preparation)**
(prepn. of)

RN 40509-96-4 CAPLUS

CN Acetic acid, [[[(ethoxycarbonyl)imino](1-methylethoxy)methyl]thio]-, 1-methylethyl ester (9CI) (CA INDEX NAME)



L6 ANSWER 36 OF 39 CAPLUS COPYRIGHT 2002 ACS

AN 1973:58366 CAPLUS

DN 78:58366

TI Organic sulfur compounds. VIII. Reaction of alkoxycarbonyl isothiocyanates and 2-aminothiazole

AU Nagano, Mitsuo; Tobitsuka, Junzo; Matsui, Takashi; Oyamada, Kozo

CS Agric. Chem. Res. Lab., Sankyo Co., Ltd., Tokyo, Japan

SO Chem. Pharm. Bull. (1972), 20(12), 2618-25
CODEN: CPBTAL

DT Journal

LA English

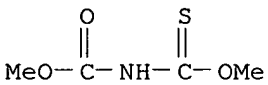
GI For diagram(s), see printed CA Issue.

AB The reactions of some alkoxycarbonyl isothiocyanates with 2-aminothiazole (II) afforded thiazolo[3,2-a]-s-triazine-4-thion-2-one (I), N-alkoxycarbonyl-N'-(2-thiazolyl)thioureas, Alkyl-N-(2-thiazolyl)-carbamates, N-alkoxycarbonyl thiocarbamates and HSCN. However, in the case using PhO2CNCS (III), the corresponding 1:1 adduct of II and III could not be obtained, but thiazolo[3,2-a]-s-thiazine-2-thion-4-one (IV) was isolated, besides I, phenyl 2-thiazolylcarbamate, and phenol.

IT **39142-28-4P 39142-31-9P 39142-33-1P**
39142-36-4P 39142-39-7P
RL: SPN (Synthetic preparation); **PREP (Preparation)**
(prepn. of)

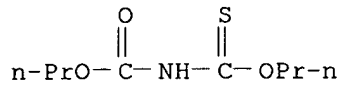
RN 39142-28-4 CAPLUS

CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), dimethyl ester (9CI) (CA INDEX NAME)

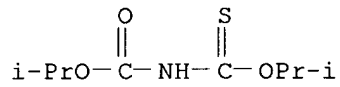


RN 39142-31-9 CAPLUS

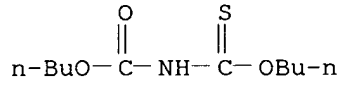
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), dipropyl ester (9CI) (CA INDEX NAME)



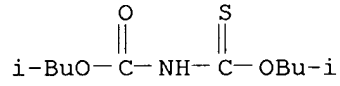
RN 39142-33-1 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), bis(1-methylethyl) ester (9CI) (CA INDEX NAME)



RN 39142-36-4 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), dibutyl ester (9CI) (CA INDEX NAME)



RN 39142-39-7 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), bis(2-methylpropyl) ester (9CI) (CA INDEX NAME)



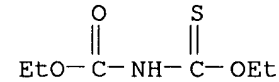
L6 ANSWER 37 OF 39 CAPLUS COPYRIGHT 2002 ACS
AN 1973:58365 CAPLUS
DN 78:58365
TI Organic sulfur compounds. IX. Reaction of ethoxycarbonyl isothiocyanate with 4,5-substituted 2-aminothiazoles
AU Nagano, Mitsuo; Matsui, Takashi; Tobitsuka, Junzo; Oyamada, Kozo
CS Agric. Chem. Res. Lab., Sankyo Co., Ltd., Tokyo, Japan
SO Chem. Pharm. Bull. (1972), 20(12), 2626-33
CODEN: CPBTAL
DT Journal
LA English
GI For diagram(s), see printed CA Issue.
AB The Reactions of SCNCO2Et with 4,5-substituted 2-aminothiazoles afforded thiazolo[3,2-a]-s-triazine-4-thion-2-ones (I), N-alkoxycarbonyl-N'-(2-thiazolyl)thioureas (II), alkyl-N-(2-thiazolyl)carbamates (III) (R = H, Me, Ph; R1 = H, Me, Et, Pr, Bu), EtO2CNHC(:S)OEt, and HSCN. However, in the cases of the amines whose pKa values were smaller than that of 2-aminothiazole or the amines which had some substituents on the 4-position the corresponding cyclic compds. (25) could not be obtained. A series of these phenomena was discussed in connection with the basicities of the 2-aminothiazoles and the steric hindrance of the substituents on

the 4-position.

IT **5585-23-9P**
RL: SPN (Synthetic preparation); **PREP (Preparation)**
(prepn. of)

RN 5585-23-9 CAPLUS

CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), diethyl ester (9CI) (CA INDEX NAME)



L6 ANSWER 38 OF 39 CAPLUS COPYRIGHT 2002 ACS

AN 1972:526044 CAPLUS

DN 77:126044

TI Carbamates

IN Oyamada, Kozo; Nagano, Mitsuo; Tobizuka, Junzo; Matsui, Takashi; Saito, Masataka

PA Sankyo Co., Ltd.

SO Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

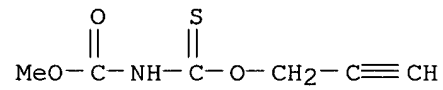
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 47014126	A2	19720804	JP 1971-1281	19710119

AB Carbamates, RC.tplbond.CCH2OC(:S)NHC(:O)OR1 (I), useful as insecticides, analgesics, and antiinflammatories, were prepd. by the reaction of acetylene alc., RC.tplbond.CCH2OH (II), with isothiocyanate, SCNC(:O)OR1 (III). Thus, a mixt. of 1.12 g II (R = H) and 2.34 g III (R1 = Me) in AcOEt was stirred 5 hr to give 0.82 g I (R = H, R1 = Me). Among 14 more I similarly prepd. were (R and R1 given): H, Et; H, Pr; Me, Me; Ph, Et; Me, Ph.

IT **37063-41-5P 37063-42-6P 37063-43-7P**
37063-44-8P 37063-45-9P 37063-46-0P
RL: SPN (Synthetic preparation); **PREP (Preparation)**
(prepn. of)

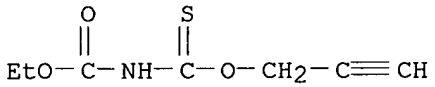
RN 37063-41-5 CAPLUS

CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 1-methyl 3-(2-propynyl) ester (9CI) (CA INDEX NAME)

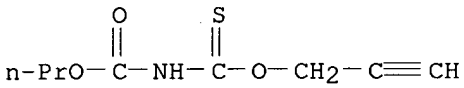


RN 37063-42-6 CAPLUS

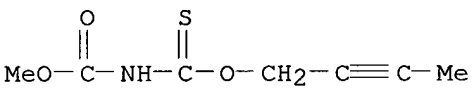
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 1-ethyl 3-(2-propynyl) ester (9CI) (CA INDEX NAME)



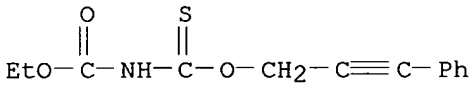
RN 37063-43-7 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 1-propyl 3-(2-propynyl) ester (9CI) (CA INDEX NAME)



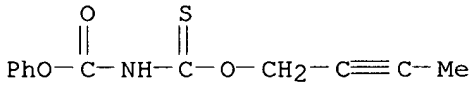
RN 37063-44-8 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 3-(2-butynyl) 1-methyl ester (9CI) (CA INDEX NAME)



RN 37063-45-9 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 1-ethyl 3-(3-phenyl-2-propynyl) ester (9CI) (CA INDEX NAME)



RN 37063-46-0 CAPLUS
CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 3-(2-butynyl) 1-phenyl ester (9CI) (CA INDEX NAME)



L6 ANSWER 39 OF 39 CAPLUS COPYRIGHT 2002 ACS
AN 1972:33982 CAPLUS
DN 76:33982
TI N-Acylcarbothioamides
IN Grigat, Ernst
PA Farbenfabriken Bayer A.-G.
SO Ger. Offen., 20 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

V. Balasubramanian

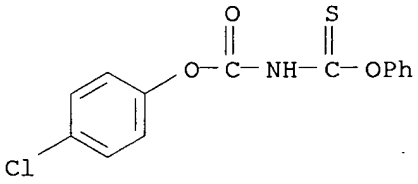
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2017966	A	19711028	DE 1970-2017966	19700415

AB Thirteen title compds., RC(S)NHCOR1 (I, e.g. R=Cl3CCH2O, p-O2NC6H4O, morpholino, Me2N, or PhO, R1=Et, CCl3, C6H4Cl-p, OCH2CH2Cl, Ph, CH2OC6H3Cl2-2,4, or 4,5,6-trichloro-2-pyrimidinyl), were prepd. by reaction of RClC:NCOR1 with H2S or H2S-releasing compds. Thus, CCl3CH2OCCl:NCOEt in Et2O was added to Et3N in Et2O satd. with H2S at 0.degree. to give 83% I (R=Cl3CCH2O, R1=Et). Similarly prepd. were 12 other I.

IT **34840-04-5P 34840-54-5P**
RL: SPN (Synthetic preparation); **PREP (Preparation)**
(prepn. of)

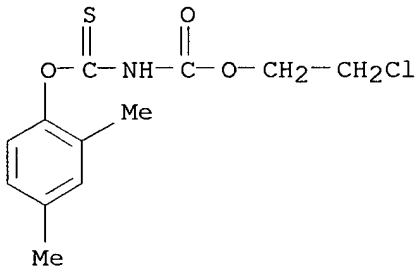
RN 34840-04-5 CAPLUS

CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 1-(4-chlorophenyl) 3-phenyl ester (9CI) (CA INDEX NAME)



RN 34840-54-5 CAPLUS

CN Thioimidodicarbonic acid ((HO)C(O)NHC(S)(OH)), 1-(2-chloroethyl) 3-(2,4-dimethylphenyl) ester (9CI) (CA INDEX NAME)

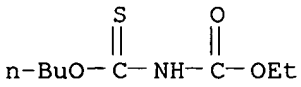


=> log y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	174.38	314.87

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-24.16	-24.16

STN INTERNATIONAL LOGOFF AT 11:10:53 ON 03 OCT 2002



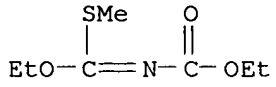
L6 ANSWER 30 OF 39 CAPLUS COPYRIGHT 2002 ACS
AN 1976:43357 CAPLUS
DN 84:43357
TI Alkyl S-aralkyl imidothiocarbonates
IN Takiguchi, Daigaku; Miyazaki, Koshin; Kato, Kinpei; Yasuda, Yasushi; Wakai, Akira
PA Nippon Soda Co., Ltd., Japan
SO Japan. Kokai, 9 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 50014631	A2	19750215	JP 1973-66139	19730612

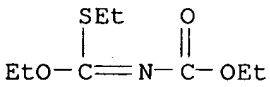
AB ROC(O)N:C(SR1)(XR2) (I; R = lower alkyl; R1, R2 = lower alkyl, lower alkenyl, PhCH2, halobenzyl; X = O, S) were prepd. by treating ROC(O)NHC(S)XR1 (II) with R22SO4 or R2Y (Y = halo). I were effective components for fungicides. Thus, 17.1 g Et2SO4 was added to a mixt. of 28 ml 4N NaOH and 16.5 g II (R = Me, R1 = Et, X = S) below 10.degree. and the mixt. kept 2 hr at 30-5.degree. to give 15 g I (R = Me, R1 = R2 = Et, X = S). Among 20 more I prepd. were (R, R1, R2, X given): Et, Et, Et, O; Me, PhCH2, Et, S; Me, Me, Et, O; and Me, Me, Et, S.

IT **51291-79-3P 57867-15-9P 57867-17-1P 57867-19-3P 57867-24-0P 57867-26-2P 57867-28-4P 57867-29-5P 57867-30-8P 57867-31-9P**
RL: SPN (Synthetic preparation); **PREP (Preparation)**
(prepn. of)

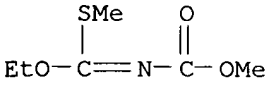
RN 51291-79-3 CAPLUS
CN Carbonimidothioic acid, (ethoxycarbonyl)-, O-ethyl S-methyl ester (9CI) (CA INDEX NAME)



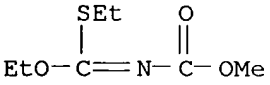
RN 57867-15-9 CAPLUS
CN Carbonimidothioic acid, (ethoxycarbonyl)-, diethyl ester (9CI) (CA INDEX NAME)



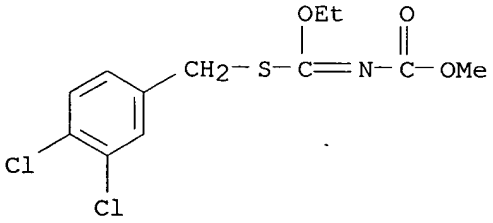
RN 57867-17-1 CAPLUS
CN Carbonimidothioic acid, (methoxycarbonyl)-, O-ethyl S-methyl ester (9CI) (CA INDEX NAME)



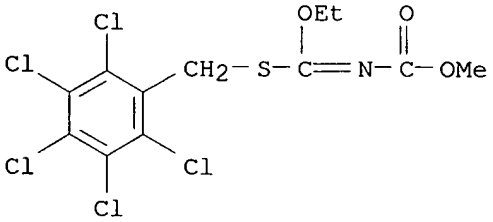
RN 57867-19-3 CAPLUS
CN Carbonimidothioic acid, (methoxycarbonyl)-, diethyl ester (9CI) (CA INDEX NAME)



RN 57867-24-0 CAPLUS
CN Carbonimidothioic acid, (methoxycarbonyl)-, S-[(3,4-dichlorophenyl)methyl] O-ethyl ester (9CI) (CA INDEX NAME)

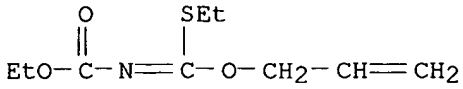


RN 57867-26-2 CAPLUS
CN Carbonimidothioic acid, (methoxycarbonyl)-, O-ethyl S-[(pentachlorophenyl)methyl] ester (9CI) (CA INDEX NAME)

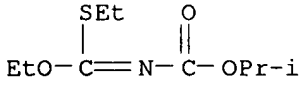


RN 57867-28-4 CAPLUS
CN Carbonimidothioic acid, (ethoxycarbonyl)-, S-ethyl O-2-propenyl ester

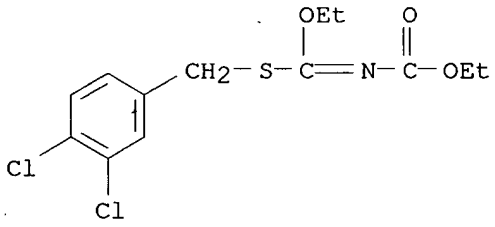
(9CI) (CA INDEX NAME)



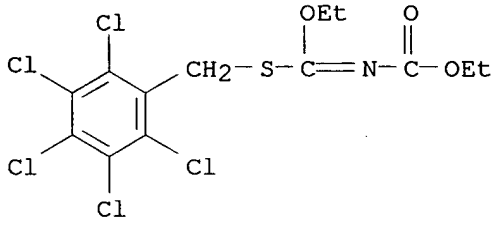
RN 57867-29-5 CAPLUS
CN Carbonimidothioic acid, [(1-methylethoxy)carbonyl]-, diethyl ester (9CI) (CA INDEX NAME)



RN 57867-30-8 CAPLUS
CN Carbonimidothioic acid, (ethoxycarbonyl)-, S-[(3,4-dichlorophenyl)methyl] O-ethyl ester (9CI) (CA INDEX NAME)



RN 57867-31-9 CAPLUS
CN Carbonimidothioic acid, (ethoxycarbonyl)-, O-ethyl S-[(pentachlorophenyl)methyl] ester (9CI) (CA INDEX NAME)



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DN 84:4965
TI Insecticidal, acaricidal, and nematicidal O-triazolylthionophosphoric(phosphonic) acid esters or esteramides
IN Hoffmann, Hellmut; Hammann, Ingeborg; Homeyer, Bernhard; Stendel, Wilhelm
PA Bayer A.-G., Ger.
SO Ger. Offen., 45 pp.
CODEN: GWXXBX